### The FORS1 catalogue of stellar magnetic field measurements\*

S. Bagnulo<sup>1</sup>, L. Fossati<sup>2,3</sup>, J.D. Landstreet<sup>1,4</sup>, and C. Izzo<sup>5</sup>

- Armagh Observatory, College Hill, Armagh BT61 9DG, Northern Ireland, U.K. e-mail: sba@arm.ac.uk, jls@arm.ac.uk
- Space Research Institute, Austrian Academy of Sciences, Schmiedlstrasse 6, A-8042 Graz, Austria. e-mail: luca.fossati@oeaw.ac.at
- Argelander Institut für Astronomie, Auf dem Hügel 71, Bonn D-53121, Germany.
- Physics & Astronomy Department, The University of Western Ontario, London, Ontario, Canada N6A 3K7. e-mail: jlandstr@uwo.ca
- Deceased

#### **ABSTRACT**

Context. The FORS1 instrument on the ESO Very Large Telescope was used to obtain low-resolution circular polarised spectra of nearly a thousand different stars, with the aim of measuring their mean longitudinal magnetic fields. Magnetic fields were measured by different authors, and using different methods and software tools.

Aims. A catalogue of FORS1 magnetic measurements would provide a valuable resource with which to better understand the strengths and limitations of this instrument and of similar low-dispersion, Cassegrain spectropolarimeters. However, FORS1 data reduction has been carried out by a number of different groups using a variety of reduction and analysis techniques. Our understanding of the instrument and our data reduction techniques have both improved over time. A full re-analysis of FORS1 archive data using a consistent and fully documented algorithm would optimise the accuracy and usefulness of a catalogue of field measurements.

Methods. Based on the ESO FORS pipeline, we have developed a semi-automatic procedure for magnetic field determinations, which includes self-consistent checks for field detection reliability. We have applied our procedure to the full content of circular

Results. We have produced a catalogue of spectro-polarimetric observations and magnetic field measurements for ~ 1400 observations of ~ 850 different objects. The spectral type of each object has been accurately classified. We have also been able to test different methods for data reduction is a systematic way. The resulting catalogue has been used to produce an estimator for an upper limit to the uncertainty in a field strength measurement of an early type star as a function of the signal-to-noise ratio of the observation. Conclusions. While FORS1 is not necessarily an optimal instrument for the discovery of weak magnetic fields, it is very useful for the systematic study of larger fields, such as those found in Ap/Bp stars and in white dwarfs.

Received: 2015-05-11 / Accepted: 2015-08-03

Received: 2015-05-11 / Accepted: 2015-08-03

Received: 2015-05-11 / Accepted: 2015-08-03

Context. The FORS1 instrument on the ESO Very Large Telesconearly a thousand different stars, with the aim of measuring their by different authors, and using different methods and software tool Aims. A catalogue of FORS1 magnetic measurements would provi and limitations of this instrument and of similar low-dispersion, Cabeen carried out by a number of different groups using a variety instrument and our data reduction techniques have both improve consistent and fully documented algorithm would optimise the acceptance of the Acceptance of the ESO FORS pipeline, we have develope which includes self-consistent checks for field detection reliability spectropolarimetric measurements of the FORS1 archive.

Results. We have produced a catalogue of spectro-polarimetric of tions of ~ 850 different objects. The spectral type of each object had methods for data reduction is a systematic way. The resulting cate the uncertainty in a field strength measurement of an early type state.

Conclusions. While FORS1 is not necessarily an optimal instrumthe systematic study of larger fields, such as those found in Ap/Bp

Key words. Polarisation – Stars: magnetic field – Catalogs

1. Introduction

During a full decade of operations, the FORS1 instrument on the ESO Very Large Telescope collected a large number of magnetic field measurements of various kinds of stars. Together with the ESPaDOnS instrument on the Canada-France-Hawaii Telescope, and the MuSiCoS and NARVAL instruments on the 2 m Telescope Bernard Lyot of the Pic-du-Midi Observatory, FORS1 has been one of the workhorse instruments for observational studies of stellar magnetism.

Most, if not all, FORS1 field measurements have been published in the literature in dozens of different articles. Gathering them in a general catalogue would serve to obtain an overview (even though biased at the target selection phase) of the incidence of the magne

(even though biased at the target selection phase) of the incidence of the magnetic fields in various kinds of stars. However, a catalogue compiled using published material would suffer from the lack of homogeneity in the way data have been treated. Furthermore, over time, new ideas for data reduction and quality checks have improved the reliability of FORS1 magnetic measurements, which calls for a revision of earlier data. We also

note that the literature of FORS magnetic field measurements includes a certain number of controversial detections. These problems have been thoroughly discussed by Bagnulo et al. (2012) and Bagnulo et al. (2013), and a discussion on the quality of the non-controversial FORS1 measurements of magnetic Ap stars was presented by Landstreet et al. (2014).

Here we publish our full catalogue of FORS1 measurements and explore experimental relationships between signal-to-noise (S/N) ratios and error bars achieved in stars with different spectral characteristics.

#### 2. Instrument and instrument settings

FORS1 is a multi-purpose instrument equipped with polarimetric optics capable of performing imaging and low-resolution spectroscopy in the optical. It was attached to the Cassegrain focus of one of the 8 m units of the ESO Very Large Telescope (VLT) at the Paranal Observatory from the beginning of operations in 1999 until instrument decommissioning in March 2009. The instrument is described in Appenzeller & Rupprecht (1992) and Appenzeller et al. (1998).

The full catalogue and the spectra are available in electronic form at the CDS via anonymous ftp to cdsarc.u-strasbg.fr (130.79.128.5) or via http://cdsweb.u-strasbg.fr/cgi-bin/qcat?J/A+A/. This paper includes an abridged printable version of the catalogue.

#### 2.1. Polarimetric optics

The polarimetric optics of FORS1 are arranged according to the optical design described by Appenzeller (1967). These components are embedded in the overall optical train of the lowdispersion spectrograph for spectropolarimetric observations as follows. The Cassegrain focal plane of the telescope coincides with a mask containing 18 parallel sets of positionable slit jaws, which in simple spectroscopy allow multi-object spectroscopy of up to 18 objects simultaneously. For spectropolarimetry every second pair of slit jaws is masked to prevent beam overlapping in the camera (following the scheme proposed by Scarrott et al. 1983), so up to nine slits can be used at once. For most observations only a single slit was used, normally (but not always) centred on the optical axis of the telescope and of the spectrograph collimator ("fast" mode), but a number of spectropolarimetric observations using the multi-slit capability were carried out for studies of clustered objects (e.g. stars in an open cluster; "fims" mode). The slits are 22" long and can be adjusted to an arbitrary width.

The slit plane is followed by a dioptric collimator consisting of four UV-transmitting lenses, which takes each diverging beam from the slit plane and converts it into a parallel beam; the collimated beams from different slits have slightly different axes. For spectropolarimetry, these collimated beams are then passed through a rotatable super-achromatic quarter- or half-wave plate, followed by a beam-splitting Wollaston prism which produces two slightly diverging beams that have been divided into two orthogonal linear polarisation states. Each beam pair is analysed into polarisation states parallel to and perpendicular to the plane of the beam divergence produced by the Wollaston prism.

Following the polarimetric optics, the beams pass through a grism, and possibly an order-sorting filter, which disperses each beam into a spectrum. This is followed by a camera lens system (four lenses) that images the dispersed light from each polarised beam into a spectrum along one axis of the CCD detector. The two dispersed beams from each single slit are imaged on neighbouring CCD rows (in the case of multi-slit observations, the various pairs of beams are arranged parallel to one another on the detector). Spectropolarimetry is accomplished (in principle) by comparing the two beams from each single slit to form sum and difference spectra, from which a polarisation Stokes parameter can be deduced.

#### 2.2. CCD and CCD readout

Two detectors have been used in the FORS1 instrument: a  $2k\times2k$  SITE CCD (from the beginning of operations to end of February 2007), and a mosaic composed of two  $2k\times4k$  MIT CCDs with a pixel size of  $15\times15\,\mu\mathrm{m}$  (from March 2007 until FORS1 decommissining in March 2009). The upgrade to the MIT CCD was described by Szeifert et al. (2007).

The older SITE CCD had a pixel scale of 0.20". For most of the observations obtained with it, the readout mode was set in "low gain" (to minimise the ADU count, and the risk of saturation of the ADC, at typically  $2.8\,\mathrm{e^-}$  per ADU¹), and with a window of 400 or 500 pixel rows centred about the spectrum, to

**Table 1.** Summary of the characteristic of the grisms+CCD most commonly employed for magnetic field measurements.

Grism	CCD	Wavelength	dispersion	spectral
		range (Å)	$(\mathring{A} px^{-1})$	res. (1")
600B	SITE	3470-5900	1.20	780
600B	MIT	3300-6210	0.70	800
1200B	SITE	3800-4960	0.61	1420
1200B	MIT	3660-5110	0.43	1420
1200g	SITE	4290-5470	0.58	1400
600R	SITE	5250-7420	1.08	1160

minimise CCD readout overheads, which represent a consistent fraction of the total overhead time necessary to achieve high S/N ratio spectropolarimetric measurements.

The MIT detector, composed of two chips, had a  $0.125^{\prime\prime}$  pixel scale, although in many observations a  $2\times2$  rebinning was adopted for the readout. The quantum efficiency of the MIT CCD in the blue was higher than that of the SITE CCD, but the MIT CCD suffered from heavy fringing in the red. One of the advantages of the MIT CCD compared to the SITE CCD was its better cosmetic character. Figure 1 shows the raw image of a spectropolarimetric frame obtained in fast-mode with the MIT CCD. An internal reflection due to the Longitudinal Atmospheric Dispersion Corrector (LADC; Avila et al. 1983), visible in the blue edge of the CCD, has affected many observations.

Most of the observations were obtained in fast-mode, while only a fraction of the observations were obtained in multi-object mode, in which up to nine polarised spectra were obtained with the same frame series. No windowing option was offered for the operations with the MIT CCD, but its typical readout time was comparable to the readout time of the SITE CCD when windowed to 4-500 pixel rows.

#### 2.3. Grisms and slit width

In order of frequency of usage, most of the observations were carried out with grisms 600B ( $\sim$  1000 observations), 1200g ( $\sim$  100), 1200B ( $\sim$  100), 600R ( $\sim$  150), and only very rarely with grism 300V ( $\sim$  25) and 300I (2) The slit width was generally set to 0.4" or 0.5", and very rarely > 1". The systematic use of narrow slits suggests that users wanted to have a high spectral resolution and did not care much about slit losses.

Table 1, obtained from the various editions of the FORS User manual, summarises the characteristics of these grisms. We note that grism 1200 g was often used setting the slit close to the right edge of the instrument field of view. For that special setting, the observed wavelength interval was often offset to the blue to include more Balmer lines than in the configuration with the slit at the centre of the field of view. Grism 600R was used together with order separation filter GG 435, while 600B, 1200B and 1200g were always used with no filter.

#### 2.4. Observing strategy

Most of the observations were obtained by setting the retarder waveplate at two position angles relative to the principal plane of the Wollaston prism, and obtaining multiple exposures for the purpose of maximising the S/N ratio and allowing the computation of the null profiles. The most typical observing sequence was  $-45^{\circ}$ ,  $+45^{\circ}$ ,  $+45^{\circ}$ ,  $-45^{\circ}$ ,  $-45^{\circ}$ ,  $+45^{\circ}$ ,  $-45^{\circ}$ . This beam-swapping technique allows one to minimise instrumental effects as explicitly suggested in the FORS1/2 manual, and thor-

<sup>&</sup>lt;sup>1</sup> The conversion from ADU to electron is recorded in the fits-header keyword DET.OUT1.CONAD. However, in the QC1 database, the same quantity is called gain, while the QC1 entry CONAD gives the number of ADU per electron. Conversely, the fits-header keyword DET.OUT1.GAIN represents the conversion factor from electrons to ADUs, but corresponds to the entry CONAD in the QC1 database http://www.eso.org/observing/dfo/quality/.

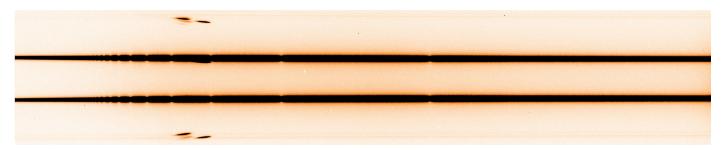


Fig. 1. Raw image of a polarisation spectrum obtained with the MIT CCD. On the blue (left) side reflections from the LADC are visible.

oughly discussed, e.g. by Bagnulo et al. (2009). Bagnulo et al. (2013) have argued that swapping between only two positions of the retarder waveplate may lead to more accurate results than cycling through all four positions in quadrature (i.e.  $-45^{\circ}$ ,  $45^{\circ}$ ,  $135^{\circ}$ ,  $225^{\circ}$ ) because the latter sequence is more likely to introduce small instrumental wavelength offsets between different exposures.

#### 3. Data reduction

In this Section we give a detailed description of how we have organised the archive data, and how we have treated them to measure the circular polarisation. We will adopt the same formalism used in Bagnulo et al. (2009), i.e.  $f^{\parallel}$  and  $f^{\perp}$  are the fluxes in the parallel and in the perpendicular beam, respectively,  $P_V = V/I$  is the circular polarisation normalised to the intensity, and  $N_V$  is the null profile (also normalised to I), a quantity that was introduced by Donati et al. (1997), and, as described by Bagnulo et al. (2009), is representative of the noise of  $P_V$ .

We have always obtained  $P_V$  profiles from a series of one or more pairs of exposures. Each pair of exposures is composed of two frames obtained with the retarder waveplate at postition angles separated by 90°. In Sect. 3.1 we explain the criteria followed to associate the frames retrieved from the archive in series of polarimetric measurements, which in fact may occasionally differ from the original plans of the observers.

For most of the observing series, it was also possible to calculate the null profile. For those cases in which the number of pairs of exposures N was odd and  $\geq 3$ , the null profile was obtained omitting the last pair of exposures. Obviously, with just one pair of exposure, the null profile was not calculated.

#### 3.1. Organising frames

#### 3.1.1. Scientific frames

As a first step we downloaded from the archive all frames obtained in spectropolarimetric mode with the quarter wave retarder in the optical beam. Then we grouped individual frames according to target pointing and observing night. Target identification was obtained via cross-correlation between RA and DEC keywords and SIMBAD catalogue, although we note that the fits-header keyword OBS. TARG. NAME, which is set manually by the observer, turned out to be sufficiently meaningful to identify the observed target in all but a very few cases. Occasionally, the RA and DEC of a target with the same OBS. TARG. NAME slightly changed within a consecutive series of exposures. We automatically ascribed a change of RA and DEC within 0.5" as due to a change of the guiding star; for larger offsets we visually inspected the Stokes I profile to check whether the observations were in fact pointing to distinct components of a visual multiple system. In the (rare) cases in which the same target was acquired twice or more times during the same night after an interval of time longer than 1 h, the observations were split and treated as independent field measurements. Most of the observation groups finally included *at least* two pairs of exposures, each pair with the retarder waveplate at position angles +45° and -45°. Some observing sets included an odd number of exposures. In many cases, this was because a short test exposure was obtained prior executing a long series, with the aim of deciding on the exposure time. These short exposures were then discarded. Sets including only one exposure were discarded.

The archive includes a few long time series of exposures that were performed within the same night on rapidly rotating or pulsating stars, and that were aimed at monitoring the target during its rotation or pulsation cycle. Example of these cases include the roAp stars observed within programme ID 69.D-0210 and 270.D-5023 (see Table 3), or the cataclismic variables II Peg and V426 Oph observed with programme ID 079.D-0697 and 081.D-0670. In all these cases we had the choice whether to report the field values e.g. for each pair of frames, or to measure the field from the I and  $P_V$  profiles obtained adding up all individual frames. For simplicity, we decided to adopt the latter approach. The interpretation of these field measurement has to be given case by case. For instance, since in roAp stars there is no evidence of a variability of the magnetic field with stellar pulsation, the value averaged over several pulsation cycles is still a meaningful estimate of the actual star's longitudinal field at a given rotation phase. If a time series extends over an interval of time that represents a non negligible fraction of the star's rotation cycle, then the averaged measurement may not be representative of the actual field. Long time series may be identified by the of frames used for field identification, which is an entry of our catalogue (see Sect. 6.2).

Any pair of frames where at least one beam in one exposure had an ADU count  $\geq 64\,000$  in at least 20 pixels was discarded as saturated. Exceptions to this rule were applied when all pairs of frames of a given series would be discarded, in which case we rescued those spectral regions that were not saturated. A second exception to this rule applies to the observations obtained in the context of the observing programme 073.D-0464. The CCD gain had been set to a very high value (3.5 ADU/e<sup>-</sup>), with the consequence that the CCD reached the full well capacity before ADC saturation. For all frames obtained with that CONAD value we set the threshold for saturation to 40,000 ADUs instead of 64 000 ADUs.

### 3.1.2. Calibration frames

For each set of observations, we retrieved from the archive the corresponding calibration frames, which included at least five bias frames, one arc lamp, and one flatfield, although for each set, we generally used five flatfield frames. Most calibration

frames were obtained the morning after the night in which the scientific frames were obtained. Occasionally, wavelength calibration frames were in fact obtained one or two days later or earlier than science data, and very rarely up to one or two weeks later or earlier. Time gaps between science data and calibration frames longer than one day were found more frequently for flat field calibrations. The reason is that acquiring high S/N ratio flatfield calibrations in the blue with a narrow slit is very time consuming, especially with the polarimetric optics in. Hence, for operational reasons, sometimes flatfield calibrations had to be postponed by one or more days. We note that flatfield frames were used by the pipeline to identify the CCD regions occupied by spectra, but scientific frames were not divided by the flatfield.

#### 3.2. Deriving the Stokes and null spectra

Each individual pairs of raw data were ingested into the FORS pipeline (Izzo et al. 2010) to perform bias subtraction, 2D-wavelength mapping of the frames, and flux extraction without flat-fielding the science data. Crucial for the data reduction was to avoid alignement with the sky lines. Many targets were very bright, and the adopted short-exposure times were not long enough to obtain high S/N ratio sky lines. Furthermore, only one useful line is present in most of the settings. We found that the alignment of each frame to the sky lines would generate differential shifts that would be eventually responsible for spurious signals in the polarisation spectra (see Fig. 1 of Bagnulo et al. 2013).

We did not use the final pipeline products but we combined the various  $f^{\parallel}$  and  $f^{\perp}$  fluxes output by the ESO pipeline with a dedicated FORTRAN routine, and we obtained  $P_V$  and  $N_V$  profiles using the formulas of the difference methods given in Eqs. (A2) and (A7) of Bagnulo et al. (2009), which for convenience we reproduce below,

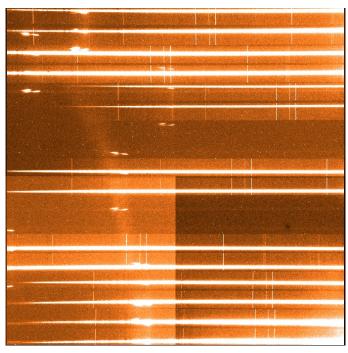
$$P_{V} = \frac{1}{2N} \sum_{j=1}^{N} \left[ \left( \frac{f^{\parallel} - f^{\perp}}{f^{\parallel} + f^{\perp}} \right)_{\alpha_{j}} - \left( \frac{f^{\parallel} - f^{\perp}}{f^{\parallel} + f^{\perp}} \right)_{\alpha_{j} + 90^{\circ}} \right]$$

$$N_{V} = \frac{1}{2N} \sum_{j=1}^{N} (-1)^{(j-1)} \left[ \left( \frac{f^{\parallel} - f^{\perp}}{f^{\parallel} + f^{\perp}} \right)_{\alpha_{j}} - \left( \frac{f^{\parallel} - f^{\perp}}{f^{\parallel} + f^{\perp}} \right)_{\alpha_{j} + 90^{\circ}} \right],$$

$$(1)$$

where  $\alpha_i$  belongs to the set  $\{-45^\circ, 135^\circ\}$ . The reason for not using the final products of the pipeline was to experiment with different algorithms. For instance, the rectification that we use for  $P_V$  and  $\langle N_z \rangle$  (explained in Sect. 3.1 of Bagnulo et al. 2012) is carried out on the fluxes  $f^{\parallel}$  and  $f^{\perp}$ . This rectification is occasionally needed for those cases in which we found the  $P_V$  profile clearly offset from zero. This offset was found even when no circular polarisation of the continumm was expected, for instance in Herbig Ae/Be stars by Wade et al. (2007), and in several other cases in the course of the present work. A possible explanation is cross-talk from linear to circular polarisation, as discussed by Bagnulo et al. (2009). Obviously, cross-talk is expected to be a problem only with observations of linearly polarised sources, and it is far more significant for spectra acquired with a slitlet close to the edge of the instrument field of view (as in some series obtained in multi-object mode).

A slight but noticeable circular polarisation signal in the continuum was also found in some of FORS data for sources that are *not* linearly polarised, and that were observed in the centre of the field of view. For these cases, we should probably rule out cross-talk as a mechanism responsible for the observed continuum polarisation. A possible explanation could be that the ratio between the transmission functions in the perpendicular beam  $h^{\perp}$ , and the transmission function in the parallel beam,  $h^{\parallel}$ , is not



**Fig. 2.** Raw image of polarisation spectra obtained with the SITE CCD on 2003-02-09. Seven out of nine slitlets are on stars member of an open cluster. The various reflections (presumably from the LADC) hamper the automatic extraction and recombination of the beams by the pipeline.

constant as the retarder waveplate rotates at the different position angles. In either case (cross-talk from linear polarisation, or variability of the ratio  $h = h^{\perp}/h^{\parallel}$ ), the  $P_V$  profile should be rectified to zero for a more accurate field determination. Inspection of the null profile may help to discriminate between the two cases. If  $P_V$  is offset from zero because of cross-talk from linear polarisation (or simply because the source is intrinsically circularly polarised), the null profile will still be oscillating about zero. If the  $P_V$  offset is due to a non-constant ratio of the transmission functions, then also the null profile will be offset from zero.

In this work, the  $P_V$  and  $N_V$  profiles were rectified to zero as explained in Sect. 3.1 of Bagnulo et al. (2012).

An important difference concerns the treatment of data obtained in multi-objects spectropolarimetric mode. In most of the cases, the ESO pipeline failed to correctly associate the beams, probably due to the presence of strong reflections in the frames. Figure 2 shows an example of a frame obtained in multi-object mode, with seven slits centred on a target, and two slits closed. Some of the data obtained in multi-object mode (mostly those pertaining to a large open cluster survey) were "rescued" through manual data reduction (see Sect. 6.1.1).

Finally, in less than 3% of the observations obtained in fast mode, the pipeline delivered results of lower quality than expected. Most of these cases were successfully individually treated by performing a data reduction with IRAF tasks (Fossati et al. 2015).

#### 3.3. Magnetic fields determinations

FORS1 magnetic field measurements are obtained by exploiting the relationship

$$\frac{V}{I} = -g_{\text{eff}} C_Z \lambda^2 \frac{1}{I} \frac{dI}{d\lambda} \langle B_z \rangle , \qquad (2)$$

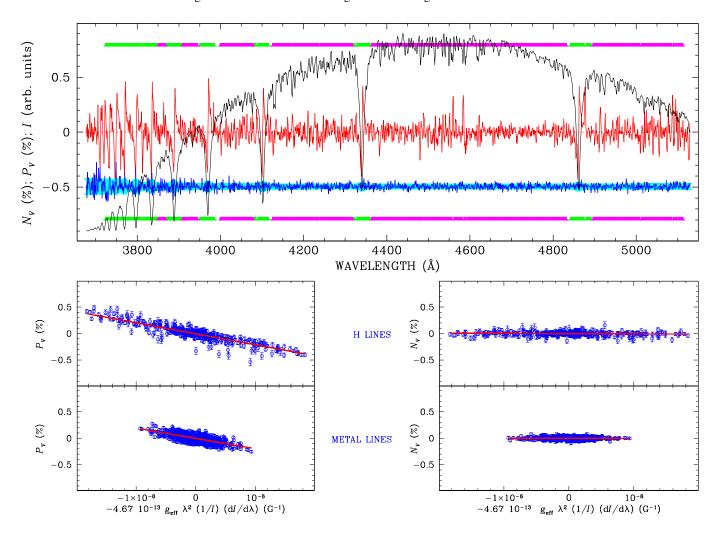


Fig. 3. An example of data reduction: the case of the Ap star HD 94660. In the upper panel, the black solid line shows the intensity profile, the shape of which is heavily affected by the transmission function of the atmosphere + telescope optics + instrument. The red solid line is the  $P_V$  profile (in % units) and the blue solid line is the null profile offset by -0.5 % for display purpose. Photon-noise error bars are centred around -0.5 % and appear as a light blue background. Spectral regions highlighted by green bars have been used to determine the  $\langle B_z \rangle$  value from H Balmer lines, and the magenta bars highlight the spectral regions used to estimate the magnetic field from metal lines. The four bottom panels show the best-fit obtained by minimising the  $\chi^2$  expression of Eq. (4) using the  $P_V$  profiles (left panels) and the  $N_V$  profiles (right panels) for H Balmer lines and metal lines as described. The field values ( $\langle B_z \rangle \sim -2000$  G and  $\langle N_z \rangle \sim 0$  G) are determined with a formal accuracy of  $\sim 40$  G for Balmer lines and  $\sim 25$  G for metal lines.

where  $g_{\text{eff}}$  is the effective Landé factor, and

$$C_Z = \frac{e}{4\pi m_e c^2} \quad (\simeq 4.67 \times 10^{-13} \,\text{Å}^{-1} \,\text{G}^{-1}) \,,$$
 (3)

where e is the electron charge,  $m_e$  the electron mass, e the speed of light. We have adopted  $g_{\rm eff} = 1.00$  for the H lines, and 1.25 as an average for the metal lines. Bagnulo et al. (2002) proposed to use a least-squares technique to derive the longitudinal field via Eq. (2), by minimising the expression

$$\chi^2 = \sum_i \frac{(y_i - \langle B_z \rangle x_i - b)^2}{\sigma_i^2} , \qquad (4)$$

where, for each spectral point i,  $y_i = P_V(\lambda_i)$ ,  $x_i = -g_{\rm eff}C_Z\lambda_i^2(1/I_i \times {\rm d}I/{\rm d}\lambda)_i$ , and b is a constant introduced to account for possible spurious polarisation in the continuum. The limitation of this method is that the spurious polarisation is assumed to be constant in wavelength, which in fact may not be true. The use of profiles rectified as explained in the previous

Section probably makes the introduction of the constant b redundant. The numerical evaluation of the quantity  $1/I_i \times (dI/d\lambda)_i$ , which appears in the definition of the term  $x_i$ , was obtained as

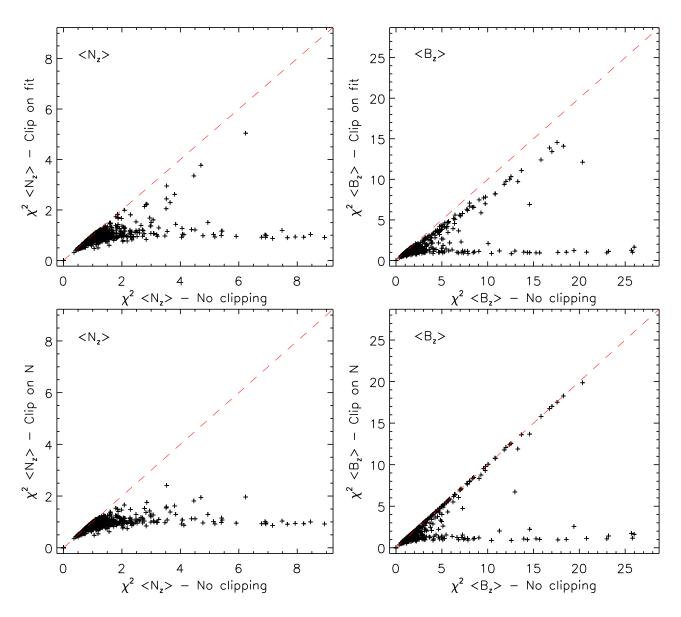
$$\frac{1}{I_i} \left( \frac{\mathrm{d}I}{\mathrm{d}\lambda} \right)_{\lambda = \lambda_i} = \frac{1}{N_i} \frac{N_{i+1} - N_{i-1}}{\lambda_{i+1} - \lambda_{i-1}} , \qquad (5)$$

where  $N_i$  is the photon count at wavelength  $\lambda_i$ .  $\langle B_z \rangle$  is calculated on points selected after visual inspection either as pertaining to H Balmer lines or to He and metal lines.

We systematically avoided emission lines and spectral lines clearly affected by non-photon noise (e.g. cosmic rays) and we generally avoided using spectral regions judged featureless by means of a visual inspection.

We also obtained null field  $\langle N_z \rangle$  in the same way as  $\langle B_z \rangle$ , but using the null profiles  $N_V$  instead of  $P_V$ .

Figure 3 illustrates in detail how field is estimated from  $P_V$  and  $N_V$  profiles.



**Fig. 4.** The reduced  $\chi^2$  adopting two different clipping algorithms for field estimates, versus the reduced  $\chi^2$  obtained without adopting any clipping algorithm.

#### 3.3.1. Clipping algorithms

It is possible to improve the quality of the field determinations by applying one or more clipping algorithms. For instance, we can reject all specral points for which the rectified null value exceeds  $3-\sigma$  in absolute value (as proposed by Bagnulo et al. 2012, we call this method N-clipping), or we can rejects all  $P_V$  and  $N_V$  points that are more than  $3\sigma$  away from the interpolating line  $y = \langle B_z \rangle x + b$  (we will call this method fit-clipping).

Another possible way to improve the precision measurement is to reject all points for which |x| is greater than a certain threshold, as Landstreet et al. (2012a) did. For instance, a point with  $|x| > 10^{-6} \, \mathrm{G}^{-1}$  in the spectrum of a white dwarf is probably due to a cosmic ray rather than to a real sharp spectral line, hence the motivation for this type of clipping.

Figure 4 shows the effects of some of these algorithms on the final error bars and on the reduced  $\chi^2$ , and makes the effect of their use evident.

We noticed that in several cases, a clipping on deviant  $N_V$  points would improve the  $\langle N_z \rangle$  best-fit, without having a sig-

nificant impact on the quality of the fit used to determine  $\langle B_z \rangle$ . Conversely, the clipping on the best-fit was found to be more efficient. The reason is that spikes in  $P_V$  due to instrumental instabilities, for example, do not necessarily also appear in the null profiles, and vice versa (for a detailed discussion, see Bagnulo et al. 2012). We finally decided to implement a  $\sigma$  clipping on the best-fit, adopting the following specific algorithm (Bagnulo et al. 2006). As a first step, a best-fit is obtained by minimising the expression of the  $\chi^2$  given by Eq. (4), considering all (preselected) spectral points. Then we calculate the median and the median absolute deviation (MAD) of the distances weighted by the photon-noise error between  $P_V$  (or  $N_V$ ) values and the bestfit. We then reject the  $P_V$  (or  $N_V$ ) points for which the weighted distance from the best-fit is  $> 3 \times 1.48$  MAD. The procedure is iterated until no points are rejected, but from the second iteration on we reject the points that have distance from the best fit-larger than three times the reduced  $\chi^2$  value.

It is important to recognise that for a given dataset it is not possible to associate a uniquely defined longitudinal field estimate. Bagnulo et al. (2012) have thoroughly discussed how two

equally reasonable data reduction procedures produce (slightly) different results. In some cases one may be able to decide that one procedure may be more appropriate than another one, but in most cases we are left with a certain degree of arbitrariness. Among steps that may affect the final results one should consider whether data are flatfielded or not, which method is adopted to extract spectra (average extraction or optimal extraction), if and how Stokes profiles are rebinned and/or rectified, how the derivative is calculated, if and how data are clipped, which spectral regions are used for the field determination, and which effective Landé factor is adopted (the latter choice does not change the relative error measurement). It is not surprising therefore that from the same dataset, different field values are obtained by different authors, or even by the same authors in different epochs. In this respect, data reduction should be somehow considered as a source of noise that adds to photon-noise and instrument instabilities.

#### 3.4. Error bars

Error bars of  $\langle B_z \rangle$  and  $\langle N_z \rangle$  are calculated using Eqs. (10) and (11) of Bagnulo et al. (2012). Briefly, they are calculated by propagating the photon-noise of the fluxes, and then multiplied by the square root of the reduced  $\chi^2$ . When a field is detected, the reduced  $\chi^2$  associated with the  $\langle B_z \rangle$  estimate tends to be higher than the reduced  $\chi^2$  associated with the  $\langle N_z \rangle$  estimate. As a consequence of the way they are calculated, the  $\langle B_z \rangle$  error bars are also systematically higher than  $\langle N_z \rangle$  error bars. Since our error bars are proportional to the square-root of the reduced  $\chi^2$ , field error bars are higher in strongly magnetic stars than in weak-field or non-magnetic stars. This phenomenon is not surprising, but is simply a natural consequence of the fact that Eq. (2) is only an approximation, and a lot of effects conspire to deviate from it, such as line blending, breaking of the weak-field approximation in metal lines, Lorentz forces and Stark broadening of the H lines. One could even conclude that a situation where the reduced  $\chi^2$  associated with  $P_V$  is substantially higher than the  $\chi^2$ associated with  $N_V$  represents already per se an indication that a magnetic field is present.

# 4. Precision of field measurements versus spectral signal-to-noise ratio

Our catalogue may be used for a number of statistical studies, some of them already discussed by Bagnulo et al. (2012).

An important question for planning observations and for evaluating their success is the exent to which the final magnetic field uncertainty of a measurement may be predicted from the expected S/N ratio of the observation (as estimated for example using the exposure time calculator, or measured after the observation). We here use the catalogue to establish a quantitative link between field error bars and spectral S/N ratio for stars of different spectral classes.

A global overview of the situation is shown in the upper left panel of Figure 5. This panel shows the error bar  $\sigma_{\langle N_z \rangle}$  of the null field versus the peak S/N ratio per Å measured in the spectrum for most of the main spectral classes present in the catalogue, using the value of  $\sigma_{\langle N_z \rangle}$  computed from the entire (useful) spectrum. The reason to choose  $\sigma_{\langle N_z \rangle}$  rather than  $\sigma_{\langle B_z \rangle}$  as abscissa is that, as discussed in Sect. 3.4, in stars with strong magnetic fields,  $\sigma_{\langle B_z \rangle}$  may be much higher than  $\sigma_{\langle N_z \rangle}$ , without being representative of the real detection threshold. In this panel the data do show a broad trend of decreasing  $\sigma_{\langle N_z \rangle}$  with increasing peak

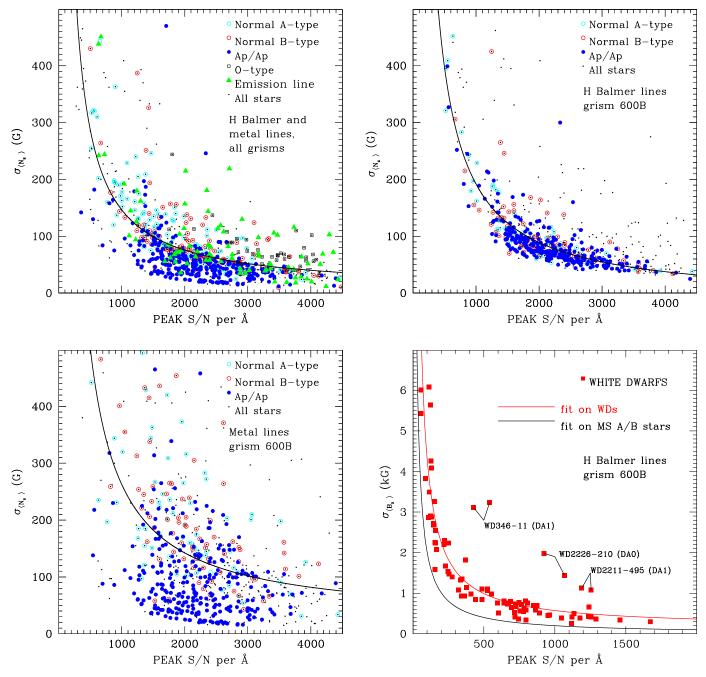
S/N ratio, and we already see that to obtain measurements with  $\sigma_{\langle N_z \rangle} \lesssim 100 \, \text{G}$ , it is necessary to obtain spectra with peak S/N ratio  $\gtrsim 10^3$ .

The data also show a considerable scatter around the mean curve. Part of this scattering occurs because in some spectral classes a more precise field measurement is possible than in others (for example, field measurements are more precise in Ap/Bp stars with their rich line spectra than in O-type stars with far fewer, weaker lines). Part of this scatter seems to be intrinsic to each main spectral class.

The scatter around the mean curve may be better understood by restricting the data used. In the upper right panel of Fig. 5, the uncertainty  $\sigma_{\langle N_z \rangle}$  is plotted again for normal A and B stars and for Ap/Bp stars, but using only observations with the 600B grism and only the Balmer line regions for the estimate of  $\sigma_{\langle N_z \rangle}$ . We see that the dispersion around the mean curve (which here is fitted to the data, with somewhat arbitary omission of some outliers) is dramatically reduced. The tightness of the data around the mean curve reflects the fact that the Balmer line strength and shape do not change very much through this effective temperature range, and are not very different for Ap/Bp stars than for normal stars.

In contrast, the left bottom panel shows  $\sigma_{\langle N_z \rangle}$  as determined using only the metallic line regions and grism 600B. Here the scatter is much larger than in the preceding panel, showing the diversity of the metallic spectra in this sample. In this sample, the number of available spectral lines, and their typical depth and breadth, vary with spectral class and with projected rotational velocity, and some stars have many points in the spectra with steep slopes  $dI/d\lambda$ , while others have few or none. In turn this has a very strong effect on the horizontal distribution of points in correlation diagrams such as the lower panels of Fig.3, with the consequence that for some stars the field is far more precisely determined from metal lines than for others. At the extremes,  $\sigma_{\langle N_z \rangle}$  from metal lines may be much less than half as large as that from the Balmer lines, or twice as large. Thus the scatter in the upper left panel arises essentially from the variations in the metallic line spectrum. For early-type stars, a robust estimation of the field uncertainty expected from the H lines as a function of S/N ratio may be obtained, but the (potentially quite large) improvement in this basic  $\sigma_{\langle N_z \rangle}$  coming from the metallic lines cannot even be estimated without knowing in some detail the nature of the metallic line spectrum.

The right bottom panel of Fig. 5 illustrates the special case of DA white dwarfs. Here we have plotted  $\sigma_{\langle B_z \rangle}$  instead of  $\sigma_{\langle N_z \rangle}$ because with field measurements based only on completely unblended H lines (hardly any DA white dwarfs show lines of any other chemical element), all with the same Landé factor, no extra dispersion enters the evaluation of  $\sigma_{\langle B_z \rangle}$  compared to  $\sigma_{\langle N_z \rangle}$ . It is seen that field measurements of the DA white dwarfs follow a similar relation to the Balmer line relationship for main sequence A and B stars. However, for a given S/N ratio, the field uncertainties are two or three times higher than for main sequence A and B stars. This larger uncertainty is essentially a consequence of the fact that the H lines of white dwarfs are several times broader than those of main sequence stars with similar temperature. Consequently, the slopes  $dI/d\lambda$  of various points in the spectrum of a white dwarf are smaller than in a A or B-type star. Since we have essentially  $\sigma_{\langle B_z \rangle} \propto \sigma_V (\mathrm{d}I\mathrm{d}\lambda)^{-1}$  it is clear that for a given value of the S/N ratio,  $\sigma_{\langle B_z \rangle}$  is larger in stars with small  $dI/d\lambda$  than in stars with higher  $dI/d\lambda$ . We also note that there are a few distant outliers in the white dwarf panel, because white dwarfs with very high or very low effective temperatures have very shallow Balmer lines that provide a very poorly constrained slope in Fig. 3.



**Fig. 5.** Error bars versus the peak S/N ratio for different kinds of stars. Left top panel: the error bars on the null field for all stars calculated using both H Balmer and metal lines. Right top panel: same as left panel, but considering only main sequence A- and B-type stars (including Ap/Ap stars) observed using grism 600B, and using H Balmer lines only. Left bottom panel: same as right top panel, but using metal lines only. Right bottom panel: the errors  $\sigma_{\langle B_z \rangle}$  on the longitudinal field measured from H Balmer lines only in white dwarfs; the outliers are the hottest star.

Finally, we note that, with the exception only of the fast rotating G-type star FK Com, FORS1 was never used to observe cool stars. Clearly, from the higher density spectra of cooler stars we expect to measure fields with higher precision than in chemically normal early-type stars (but higher precision does not automatically translate into higher accuracy). Field measurements in FK Com have reached a precision of  $\sim 20\,\mathrm{G}$  for a S/N ratio  $\sim 3500$ , comparable to what is achievable from metal lines of Ap stars.

#### 5. Stellar classification

The stars of the FORS1 archive cover a wide range of spectral types and evolution stages. Many are in some way distinctive or even peculiar. Here we provide a classification to facilitate the identification of all FORS1 measurements of a particular type of star.

In order to maximise the usefulness of these classifications, we went beyond the very inhomogeneous classes that would be obtained, for example, by simply taking the stellar classifications (often on the MK or Henry Draper systems) from the Simbad data archive. One reason for doing this is that the normal spectral classes reported in catalogues are also quite limited in their

Table 2. Symbols used in classification entry to the catalogue of FORS1 magnetic field measurements

Symbol	Description
First field: evolu	ution state
PM	(probable or certain) pre-main-sequence star
MS	main sequence star, MK luminosity class IV or V
GS	giant star, MK luminosity class III
SG	supergiant star, MK luminosity class I or II
SD	(hot) subdwarf
CP	central star of planetary nebula
WD	white dwarf
??	star of unknown evolutionary state
Second field: ter	mperature class
A5, B9, etc.	temperature (spectral) class according to MK or HD system
DA7, DB3, etc.	temperature class according to white dwarf system of Sion et al. (1983)
CV	cataclysmic variable system (nova, dwarf nova, etc.)
Third field: dist	inctive characteristics
AM	metallic-line (Am) star
AP	star of the Ap (peculiar A) spectroscopic class
BCEP	early B-type $\beta$ Cep pulsating star
CSD	star showing evidence of a circumstellar debris disk
CV	cataclysmic variable system (nova, dwarf nova, etc.)
DSCT	$\delta$ Sct star, a late A-type pulsating main sequence star
E	presence of emission lines, especially in $H\alpha$
EB	eclipsing binary system
FKCOM	FK Com variable (rapidly rotating cool giant)
FLS	flare star
FP	O stars with the Of?p peculiarity
HES	a star showing abnormally strong He lines for its effective temperature
HEW	a star showing abnormally weak He lines for its effective temperature
HGMN	a late B-type star showing the HgMn class of spectral peculiarities
HIPM	a high proper motion star
LPS	standard of linear polarisation
M	a star in which a magnetic field has definitely been detected (not necessarily with FORS1)
NOV	nova
P	peculiar (often chemically peculiar)
ROAP	rapidly oscillating Ap star (roAp star)
SB	spectroscopic binary system
SPB	slowly pulsating B star
V	variable
XRB	X-ray binary system

intent; most simply describe the morphological class to which an observed classification spectrum belongs. Spectral classification often lacks important information about the nature or evolutionary state of the star, and usually does not contain any information about such important characteristics as pulsation properties.

Our classifications are intended to provide a brief summary of a number of different kinds of information about each of the stars observed. We include information about *a*) the general evolutionary state (pre-main sequence, main sequence, giant, etc.); *b*) the photospheric temperature; *c*) some specific distinctive features of the star such as chemical peculiarity, pulsation properties, presence of a disk, clear presence of a magnetic field in the star, etc. The system we have adopted is to provide a single entry for each observation in the general format:

(evolution state):(effective temperature):(feature 1).(feature 2).  $\dots$  (feature N).

The choice of classes for the first field (evolution) is a fairly obvious extension of the MK luminosity classes, supplemented

by classes not covered by this system such as CP for the central star of a planetary nebula.

In the second field (effective temperature), we follow the MK classes whenever these provide a useful description of temperature (A5, B0, or simply A or B if the temperature class is rather uncertain). For white dwarfs we use the temperature classification system described by Sion et al. (1983), where the numeral following the spectral type DA, DB, etc., is the quantity  $50400/T_{\rm eff}$  rounded to an integer. Sometimes we have simply provided a class which explains why we cannot give a simple temperature (such as CV for a cataclysmic variable). In the case of SB systems, we have usually given the temperature class of the brightest member.

In the third field (features), we have included a very wide variety of information, including chemical peculiarity (metallic-line Am star, helium-strong star), binary nature, evidence of circumstellar material (classical Be stars, shell stars), pulsation properties ( $\beta$  Cep stars), clear presence of a magnetic field, and/or other miscellaneous information.

The origins of the information contained in these classifications are very diverse. We have naturally made extensive use of the classes provided by the Simbad database, or more specific catalogues such as the revised Henry Draper catalogue of Houk and collaborators (Houk & Swift 1999). The white dwarf catalogue of McCook & Sion (1999) has been consulted extensively. In addition, we have often found useful information in the publications that have been based on the data re-analysed here. A large number of such articles are cited by Bagnulo et al. (2012).

For a few of the spectra in the catalogue, literature spectral classifications appeared to be inconsistent with the observed *I* spectra. Furthermore, two observing programmes measuring magnetic fields of open cluster stars (68.D-0403 and 70.D-0352) made extensive use of the fims multi-object observing mode in order to observe as large a sample of stars as possible. In these multi-object observations, stars other than the one or two explicitly chosen targets were simply selected from the nearby field. Such stars often have no published classifications at all, even if they have cluster numbers.

For cases of dubious or missing spectral classification in the catalogue, we tried to assign spectral classes based on the observed intensity spectra. We did this by visually comparing each observed spectrum with a grid of spectra of stars of known spectral type, also taken from the catalogue. For B and A stars classification was usually successful, using normal spectral classification criteria such as line strength ratios of lines of H, He and Ca K. We could also often use the width of Balmer lines to assign evolutionary state. The precision of our spectral classes is estimated to be about  $\pm 2$  or 3 spectral subclasses, probably about the same as the precision of classes taken somewhat randomly from the literature. However, this procedure usually failed, or produced only very imprecise classification for late type stars, for which very few stars of known spectral type are available in the catalogue. We were also usually unsuccessful in assigning spectral classes to stars for which only spectra around H $\alpha$ are available in the catalogue, as this region lacks the required variety of clear classification indicators.

The full list of symbols and abbreviations adopted for our classifications are given in Table 2. For example, a main sequence A9V star that is a  $\delta$  Sct variable and a member of a spectroscopic binary system will be classified as MS:A9:DSCT.SB.

#### 6. Description of the catalogue

The FORS1 archive of circular spectro-polarimetric data includes about 1500 observing series, for a total of more than about 12000 scientific frames, obtained within the context of 59 observing programmes, using more than 2000 hours of granted telescope time and about 340 hours of shutter time.<sup>2</sup> The content of the FORS1 archive is presented here in the form of three printed tables, one catalogue online, and one database of intensity spectra available at http://star.arm.ac.uk/FORS/. In the following we describe this material.

#### 6.1. List of the observing programmes

Table 3 is the list of the IDs and PIs of the observing programmes, and their general characteristics (i.e. the amount of

telescope time granted, and the scope of the programme). Programme IDs may be readily associated to published papers and to the abstract of the proposals by entering it into the online form available at telbib.eso.org. Table 3 is organised as follows: Column 1 gives the programme ID and col. 2 the last name of the Prinicipal Investigator of the observing programme. Column 3 is a brief description of the scope of the observing programme and nature of the observed targets. Column 4 gives the amount of time allocated to the proposal. Column 5 is the most frequently used grism in that programme.

#### 6.1.1. Comments to individual programme IDs

Programmes 060.A-9203 and 060.A-9800 were not granted to users but belonged to Paranal SCIOPS team for ordinary calibrations and for technical tests, including some polarimetric tests on magnetic stars. For instance, the first observation of a magnetic Ap star (HD 94660), used as a proof-of-concept for the method of Sect 3.3 (Bagnulo et al. 2002), was made on 2001-03-23 under programme ID 060.A-9203 (although telescope time was officially granted as DDT).

This catalogue contains little or no reduced data for the programmes IDs 65.H-0293 (PI=Jordan), 65.P-0701 66.D-0128 (PI=Appenzeller), 072.D-0736 (PI=Wagner), 072.D-0119 (PI=Marsh), 073.D-0322 and (PI=O'Brien), 082.D-0695 (PI=Reinsch) and 277.D-5034 (PI=Greiner), for various different reasons, e.g. because data were taken in multi-object mode (073.D-0322, 082.D-0695) and could not be reduced by the automatic pipeline, or because the S/N ratio was extremely low (e.g. 277.D-05034). Most of data obtained under programme IDs 080.D-0521 (PI=Kawka) 082.D-0736 (PI=Vornanen) could not be used to measure  $\langle B_z \rangle$  through the least-square technique of Sect. 3.3, but intensity spectra are still made available (see Sect. 6.4).

Programme IDs 68.D-0403, 70.D-0352, 073.D-0498, 272.D-5026 and 074.D-0488 (PI=Bagnulo) do contain many observations obtained in fims mode, and were not properly reduced by our pipeline. However, it was possible to re-use an older data reduction carried out with IRAF routines by Bagnulo et al. (2006). From this old data reduction we took the extracted wavelength calibrated beams and we recombined them to obtain the  $P_V$  and  $N_V$  spectra, and measured the  $\langle B_z \rangle$  and  $\langle N_z \rangle$  values as explained in Sect. 3.2 and 3.3.

#### 6.2. The entries of the catalogue

The general catalogue includes the following entries; the number in parentheses correpond to the fields (columns) of the catalogue.

- 1-7) The coordinates RA and DEC of the frame fits-headers. These may not correspond exactly to Simbad coordinates, but in the large majority of the cases they allow an unambiguous identification of the target.
- 8) The star identifier.
- 9) The star classification as explained in Sect. 5.
- 10) The programme ID.
- 11) The epoch of the observations (at the mid-time of the exposure series), expressed in Modified Julian Date.
- 12-13) Same as 11), but expressed in calendar date and UT.
- 14) The total exposure time in seconds.
- 15) The number of frames used for the field determination.
- 16) The grism used.
- 17) The slit width in arcsec.

<sup>&</sup>lt;sup>2</sup> The top right panel of Fig. 6 of Bagnulo et al. (2012) shows that a large fraction of FORS1 magnetic field measurements were obtained with very short exposure times, in some cases even less than 1 s. As a consequence, the execution time of many observing programmes were dominated by overheads.

 Table 3. List of observing programmes carried out with FORS1 in circular spectropolarimetric mode.

PR. ID	PI	TARGETS	TIME	YEAR	GRISM
60.A-9203	SCIOPS	(engineering ID)			
60.A-9800	SCIOPS	(engineering ID)			
65.H-0293	Jordan	WD LP 790	6h	2000	150I
65.P-0701	Wagner	Blazars	2N	2000	150I
66.D-0128	Appenzeller	Polar EF Eri	0.7N	2000	600B
67.D-0306	Bagnulo	WD 1953–011 (monitoring)	13h	2001	600R
68.D-0403	Bagnulo	Open cluster Ap stars	2N	2002	600R
69.D-0210	Hubrig	Time series roAp stars	1n 10h	2002	600B
269.D-5044 70.D-0259	Hubrig Jordan	Mini-survey of roAp stars Weak fields in white dwarfs	24h	2002 2003	600B 600B
70.D-0259 70.D-0352	Bagnulo	Open cluster Ap stars	3h+2N	2003	600B
270.D-5023	Kurtz	Time series of roAp star HD 101065	311 + 21 <b>\</b> 4h	2003	600B
71.D-0308	Hubrig	Evolution of Ap stars in the field	20h	2003	600B
072.D-0119	Marsh	Polar ES Cet	1N	2003	300V
072.C-0447	Bagnulo	Herbig stars	3HN	2004	600B
072.D-0089	Jordan	Planetary Nebulae	7h	2003	600B
072.D-0290	O'Toole	Hot subdwarfs	1N	2004	600B
072.D-0377	Hubrig	Evolution of Ap stars in the field	30h	2004	600B
272.C-5063	Bagnulo	Herbig stars	4.5h	2004	600B
073.D-0322	Reinsch	Zeeman tomography of WDs	2h+3N	2004	300V
073.D-0356	Jordan	Weak fields in White Dwarfs	24h	2004	600B
073.D-0464	Hubrig	Evolution of Ap stars in the field	30h	2004	600B
073.D-0466 073.D-0498	Hubrig	SLP B and Bp stars	30h 30h	2004 2004	600B 600B
073.D-0498 073.D-0516	Bagnulo Bagnulo	Open cluster Ap stars Cool White Dwarfs	42h	2004	600B
073.D-0310 073.D-0736	O'Brien	X-rays binary	6h	2004	300V
274.D-5025	Mason	Nova V574 Pup	7.1h	2004	300V
272.D-5026	Bagnulo	Open cluster Ap stars	4.5h	2005	600B
074.C-0442	Bagnulo	Herbig stars	3N	2004	600B
074.C-0463	Yudin	Vega-like stars	8h	2005	1200g
074.D-0488	Bagnulo	Open cluster Ap stars	4h+2N	2005	600B
075.D-0289	Jordan	Planetary nebulae	3N	2005	600B
075.D-0295	Briquet	Pulsating B-type stars	30h	2005	1200g
075.D-0352	O'Toole	Hot subdwarfs	19h	2005	600B
075.D-0432	Schnerr	O-type stars	17h	2005	600B
075.D-0507	Yudin	Be-type stars	12h	2005	1200g
076.D-0435 077.D-0406	Berdyugina Yudin	White dwarfs	1N 10h	2005 2006	600B 600B
077.D-0400 077.D-0556	Schmitt	Be-type stars X-ray A-type stars	1011 1N	2006	600B
277.D-5034	Greiner	Cataclysmic variable V504 Cen	2h	2006	600B
078.D-0140	Briquet	Pulsating B-type stars	16h	2007	600B
078.D-0330	Hubrig	Hanle effects in high-mass stars	18h	2007	600R
278.D-5056	Briquet	$\theta$ Car	1h	2007	1200B
079.D-0240	Mathys	roAp stars	28h	2007	600B
079.D-0241	Briquet	B-type stars	2N	2007	600B
079.D-0549	Karitskaya	Cyg X-1/HDE226868	7h	2007	1200B
079.D-0697	Jeffers	II Peg& V426 Oph	2N	2007	1200B
279.D-5042	Hubrig	v Sgr	2.5h	2007	1200B
080.D-0170	Mathys	HD75049	6.2h	2008	600B
080.D-0383	McSwain	Be-type stars	2N	2008	600B
080.D-0521	Kawka	White dwarfs HD 182180	74h 2h	2008 2008	600B 1200B
081.D-2005 280.D-5075	Barrera Korhonen	G-type giant star FK Comae	7.5h	2008	600B
380.D-0480	Yudin	Be-type star $\lambda$ Eri	2H	2007	1200B
081.C-0410	Cure	Herbig stars	2N	2008	600B
081.D-0670	Jeffers	II Peg & V426 Oph	2N	2008	1200B
381.D-0138	Karitskaya	Cyg X-1/HDE226868	10h	2008	1200B
082.D-0342	Kolenberg	RR Lyrae stars	2.5N	2008	1200B
082.D-0695	Reinsch	Accreting white dwarfs	3N	2008	300V
082.D-0736	Vornanen	White dwarfs	2N	2008	600B
282.C-5041	Hubrig	Z CMa	2.7h	2008	1200B

18) The spectral resolution measured on the arc lamp in a spectral line situated approximately in the spectrum centre.

19–20) The wavelength spectral range (blue and red ends, in Å). 21) The S/N ratio per Å calculated as the median of the 100 highest pixels of the spectrum (but excluding emission lines).

22) The centre of the wavelength interval where the S/N ratio peaks.

23–25) The mean longitudinal field measurement  $\langle B_z \rangle$  from Balmer lines with its error bar, and the corresponding reduced  $\chi^2$ ; if H Balmer lines are absent in the spectrum, the field value and its error bar are set to zero.

26–28) Same as 23–25) for the field measured from the null profiles,  $\langle N_z \rangle$ . For the observing series including only one pair of exposures, null fields values and their error bars are set to zero.

29–34) Same as 23–28) for metal lines; if metal lines are absent in the spectrum, all these columns contain zero values.

35–40) Same as 23–28) for both H Balmer and metal lines; if H Balmer lines are absent in the spectrum, these columns contain the same values as cols. 29–34). Conversely, if metal lines are absent from the spectrum, these columns contain the same values as cols. 23–28).

41) The name of a downloadable gzipped tar file that contains the intensity spectra described in Sect. 6.4.

There exist catalogue entries that do not include magnetic field determinations at all, which correspond to cases where the field is unmeasurable either because the spectrum has only (non-photospheric) emission lines, or because the spectrum is featureless, or because it is formed outside of the Zeeman regime, and Eq. (2) does not provide its estimate. These entries are still kept in the catalogue because it is still useful to know that a certain observing series has not been overlooked at. Furthermore the intensity spectrum is still potentially useful and available in the archive of reduced data, and a catalogue entry helps to identify the essential information about the observations.

#### 6.3. Abridged printed version of the catalogue

Table 5 is an abridged version of the catalogue of the FORS magnetic field measurements and includes only the star name, the stellar classification, the MJD of the mid of the observation, the grism used, the  $\langle B_z \rangle$  and  $\langle N_z \rangle$  values in G with their error bars and corresponding reduced  $\chi^2$ . When no magnetic field measurement is available, a blank is left in the corresponding columns.

The last column of this Table is a three-character flag that helps to identify possible field detection. Each character reflects the results of the analysis carried out on the H Balmer lines, on the metal lines, and on the combination of the two sets of lines, respectively. An "n" means that the absolute field values was  $< 3 \sigma_{\langle B_z \rangle}$ , a "d" corresponds to the cases where  $3 \leq |\langle B_z \rangle|/\sigma_{\langle B_z \rangle} \leq 5$ , and a "D" when the field was detected at more than  $5 \sigma$  level. The reason we assign a weaker detection certainty (d) to detections at the 3 to  $5 \sigma$  level than we do to detections at higher significance (D) is because of the problem of "occasional outlier" detections that has been clearly identified in FORS1 data (Bagnulo et al. 2012).

Our final assessment whether the star is really magnetic or not is given by the "M" flag in the classification. Since this assessment is often also based on measurements obtained with other instruments and on other observing dates, it is quite possible that a star classified as magnetic in col. 2 has a flag "nnn" in the last column. Conversely, "d" flags (or even "D" flags) may be associated with stars that have not received the classification of magnetic stars in col. 2. This may happen for three reasons: either we think that the detection might be real, but that it needs be supported by further data (e.g. the case of the M giant star HD 298045), or we believe that the signal we measure is spurious, and/or the field detection has not been confirmed by further observations obtained with FORS1 itself or other instruments. Most of these spurious or dubious cases have been discussed by Bagnulo et al. (2012).

Finally, a dash ("-") in the last column means that the corresponding part of the spectrum was not used to measure the field (in fact, there are cases where no field measurement was attempted, as explained in Sect.6.2).

#### 6.4. The archive of intensity spectra

In the course of measuring the magnetic field strength from the circularly polarised spectra of FORS1, we have obtained the (uncalibrated) intensity (I) spectra. Since FORS is a single order spectrograph, these I spectra, even without flux calibration, provide potentially useful profiles of broad spectral lines such as those of H and He that are difficult to recover with accuracy from high-dispersion spectra derived from cross-dispersed instruments. The I spectra also illustrate clearly the overall shape of the detected spectral flux (convolved with the instrument+telescope transmission function) of each star observed. Because these I spectra could potentially be useful for a wide range of projects, we have made them available at CDS, and, temporarily, at http://star.arm.ac.uk/FORS/

In the ESO archive, each frame is identified by a name that refers to the instrument and the instant when an exposure was started. In case of FORS1 data:

FORS1.YYYY-MM-DDThh-mm-ss.xxx.fits

where YYYY-MM-DD refers to the year, month and day of the observation, and hh-mm-ss.xxx the hour, minute and second (with millisecond precision) when shutter was open for the observation (UT). We note that files produced until the end of period 67 were called FORS.YYYY-MM-DDThh-mm-ss.xxx.fits.

In our context it is useful to group all together the frames of the observing series that have been used to obtain a certain magnetic field measurement. Therefore, for each entry of our catalogue, we have produced a tarball named STARNAME\_PID\_III.X-JJJJ\_MJD\_nnnnn.mmm.tar where STARNAME is the star name, III.X-JJJJ is the programme ID and nnnnn.mmm is the Modified Julian Date of the observation. Very few objects oberved in multi-object mode could not be identified (see Bagnulo et al. 2006). In these cases, for the instead of STARNAME we used RAhh\_mm\_ss.s where hh:mm:ss.s is the RA of the centre of the slit read in the fitsheaders. This way, each tarball is unambiguously associated with each entry of the catalogue and Table 5.

Each tarball includes an ASCII file with the same name as the tarball itself (without the extension .tar) which contains the list of original frames used for the field determination. In this file, each filename is followed by: the exposure time in seconds of each individual frame (fits-header keyword EXPTIME); the position angle of the retarder waveplate with respect to the parallel beam of the Wollaston prism (fits-header keyword INS.RETA4.ROT)<sup>3</sup>; the exposure number, and the total number of exposures in each

Older FORS1 data did not include this keyword, in which case it was calculated as the difference between the fits-header keywords ADA.POSANG and INS.RETA4.POSANG which give the position angles

Table 4. Example of the content of the input file STARNAME\_PID\_III.X-JJJJ\_MJD\_nnnnn.mmm: here we consider HD190073\_PID\_081.C-0410\_MJD\_54609.411 (the file structure is explained in the text). From the file list one can infer that last two exposures of the observing series have been dropped (either because the observing series was interrupted, or because the frames were discarded due to some problem, e.g. saturation).

FORS1.2008-05-23T09:36:34.552.fits	180	315.0	1/8	200176637
FORS1.2008-05-23T09:41:07.012.fits	200	45.0	2/8	200176637
FORS1.2008-05-23T09:45:27.830.fits	250	45.0	3/8	200176637
FORS1.2008-05-23T09:51:10.408.fits	250	315.0	4/8	200176637
FORS1.2008-05-23T09:56:21.302.fits	250	315.0	5/8	200176637
FORS1.2008-05-23T10:02:03.889.fits	250	45.0	6/8	200176637
GRIS_600B 0.40 1797				
Norma III 4136x4096 1x1 200Kns/low	gain			

OB template, and the OB number, given by fits-keywords NEXP EXP and OB, respectively. The file name list is followed by two lines with the grism name, the slit width, the spectral resolution, the detector name and the readout mode. An example of such file is given in Table 4.

The tarball includes an ASCII file for each frame of the observing series used to determine  $\langle B_z \rangle$ . This file is identified by the same name as the original frame archive name, having replaced the extension .fits with .prof. In case of observations obtained in multi-object mode, the name of the .prof file refers also to the slitlet number where the star was centred, e.g., FORS1.YYYY-MM-DDThh-mm-ss.xxx\_Syy.fits, where yy may be 02, 04, ..., 18. Each of these .prof files have three columns: wavelength in Å (col. 1), flux and flux error in ADUs (cols. 2 and 3, respectively).

## 7. Comparison with previously published field values

It is of interest to compare the  $\langle B_z \rangle$  values obtained from the current suite of reduction programs with results published in the literature and obtained from the same datasets.

#### 7.1. Data on magnetic Ap/Bp stars

A first comparison may be made with the Ap star field strength values obtained for open cluster Ap/Bp candidates that are described by Bagnulo et al. (2006). These measurements were made using a combination of Balmer and metallic line in order to maximise sensitivity to weak fields in these often faint stars. Field measurements made for this observing programme are found to have uncertainties that are rather similar to those in the present catalogue. For stars in which no field was detected, in general the result is still a null detection, although the actual value reported has often changed by an amount of the order of 1  $\sigma$  or even more, while still remaining a null detection. For stars with easily detectable fields, the values of the uncertainties are not greatly different from the present data, but the actual  $\langle B_z \rangle$  values reported may differ from the current ones by 10 or even 20 %.

Another comparison may be made with the data used by Kochukhov & Bagnulo (2006) to study the evolution of magnetic field strength with age among bright field Ap/Bp stars. These data differ from the open cluster field strengths in that the stars observed are generally a few magnitudes brighter, and so the S/N ratio of the measurements are higher. Field strengths

were measured using only the Balmer lines, as this provided adequate precision for their project. Because the printed version of the catalogue presented here has field values derived from both metal and H lines, the catalogue uncertainties may be as much as two times smaller than those of Kochukhov & Bagnulo (2006), and range up to similar or slightly larger values in stars in which the metallic spectrum contributed little useful information. Again, the actual values of  $\langle B_z \rangle$  in the present catalogue for stars in which the field is easily detected may differ from the earlier values by 10 or 20 %, in this case at least mainly because the field is not determined using the same lines in the two datasets.

#### 7.2. White dwarfs

We have also compared the catalogue to the field measurements of DA white dwarfs described by Landstreet et al. (2012a). Since this publication was based on a method very similar to that adopted for this catalogue, the field values and uncertainties are generally very similar in the two places. The main exception concerns the two (null) field measurement of the white dwarf WD 1334–678 that were included (by mistake) in their online Table 3 of all FORS measurements of potential kG field DA white dwarfs. We discovered that the actual target of that measurement is in fact an anonymous G star rather than the white dwarf, and that the white dwarf is actually more than 1 arcmin away from the fits-header coordinates. In this catalogue, the observations have been assigned to the correct star (identified by the fits-header coordinates), and no field value is included in the catalogue, although the *I* spectrum is being made available.

For all the remaning stars, small field value differences are present, and due to the slightly different version of the algorithm that we have adopted for this catalogue.

#### 7.3. Other stars

A thorough comparison of the results in the catalogue with reported magnetic field discoveries in non-Ap/Bp stars made by other groups from FORS1 observations has been carried out by Bagnulo et al. (2012). The general result of this comparison was that many of the reported discoveries are erroneous or at least unsupported by a revision of the original FORS1 data.

In Sect. 5 of Bagnulo et al. (2012) we highligted a number of cases where our pipeline-based data reduction was unsatisfactory. We have re-addressed these cases, sometimes using a "hand-made" data reduction, and found the conclusions described in the remaining part of this Sect., which addresses a dozen very specific cases.

of the instrument and of the retarder waveplate, respectively, with respect to the north celestial meridian.

Table 5 of Bagnulo et al. (2012) reported no detection but very large error bars for the observations of Be star HD 148184 on MJD=53532.224 and 53862.380. Our new reduction produces much smaller error bars, and still does not confirm the detection previously reported in the literature.

Section 5.2 of Bagnulo et al. (2012) reported apparently significant but very suspicious field detections for four classical Be stars: an observation of HD 181615=HD 181616, one observation of HD 56014, two observations of HD 209409 (in which the original observers did not report any significant fields), and one observation of HD 224686. Our new data reduction has fixed all these problems and no detection is reported, fully confirming the claim by Bagnulo et al. (2012) that from FORS data there is no evidence for magnetic fields in any classical Be star.

Similar problems affected three slowly pulsating B (SPB) stars (see comments in Sect. 5.4 of Bagnulo et al. 2012).

For the  $\langle B_z \rangle$  measurement of the SPB star HD 53921 obtained on MJD=52999.137, Bagnulo et al. (2012) reported a field detection with the opposite sign to that measured by Hubrig et al. (2006), and for the measurements obtained at MJD=53630.401 and 53631.408, Bagnulo et al. (2012) reported error bars five times higher than previously reported by Hubrig et al. (2006), with no significant detection in these two datasets (however, Bagnulo et al. 2012 confirmed that the star is magnetic based on HARPSpol measurements). With our new reduction we are able to confirm the field detection on MJD=52999.137 with a positive sign, and we have gotten rid of additional noise in the remaning two measurements, confirming the 5  $\sigma$  detections reported by Hubrig et al. (2006).

Bagnulo et al. (2012) reported an unsatisfactory reduction for the SPB star HD 152511 on MJD=54609.433 due to seeing conditions. Our revision of this dataset lead to much better results, which are consistent with those of Hubrig et al. (2009). Therefore we confirm all three detections reported by Hubrig et al. (2009) instead of only two as reported by Bagnulo et al. (2012).

For the observations of the SPB star HD 28114 obtained on MJD=54106.091 Bagnulo et al. (2012) obtained a larger noise than was previously published by Hubrig et al. (2009), and a field detection based only on a signal that appears in the highest-order H Balmer lines. Our new reduction has a higher S/N ratio, but we still get the same suspicious signal only on the highest-order H Balmer lines, and no credible field detection.

Section 5.4 of Bagnulo et al. (2012) conclude that six reported detections of a field in the  $\beta$  Cep star HD 16582 had decreased below the 3  $\sigma$  significance limit, although one measurement not originally claimed as detection, on MJD=54343.259, has risen to become an apparently significant detection. This detection has disappeared in our new reduction, highlighting once again how the reliability of marginal discoveries may crucially depend on data-reduction.

#### 8. FORS detections of stellar magnetic fields

With the complete dataset of magnetic measurements obtained with FORS1, we can take stock of the achievements of this instrument, and assess its strengths and weaknesses.

We consider first FORS1 measurements of Ap/Bp stars. A large number of such stars have been observed, both in open clusters and in the field, and in the context of wide-ranging surveys as well as for studies of single objects. For such stars, the detection rate is reasonably high: if the star is securely identified as an Ap/Bp star (by specific chemical peculiarities, or by appropriate values of the photometric Maitzen  $\Delta a$  or Geneva Z peculiarity parameters), then the likelihood of clear detection of

a longitudinal field is around 50 %. This result occurs because in practice the main surveys have been able to achieve measurement uncertaintites of the order of 50—100 G, while the fields to be detected are typically several hundred G. Thus a measurement with  $\langle B_z \rangle/\sigma_{\langle B_z \rangle}$  ratio of order ten is often obtained, a value large enough to clearly establish the presence and amplitude of a field in spite of the excess noise that can sometimes trouble FORS1 measurements. It is clear that FORS is extremely powerful as a tool to search for fields in such stars, down to magnitudes fainter than  $V \sim 10$ , and is perfectly capable of detecting kG fields in stars as faint as V = 13 or 14.

The FORS1 Ap stars data have recently been discussed by Landstreet et al. (2014), who studied the general usefulness of FORS for systematic studies of individual Ap stars, and concluded that (apart from occasional outliers) the instrument furnishes data of high quality and consistency. However, only a few of the observing programmes carried out on FORS1 have focused on this kind of problem.

With the discovery that WD 446-789, WD 2105-820, WD 2359-434 (and perhaps also WD 1105-048) host a magnetic field, the FORS1 surveys of white dwarfs have opened a new stream of research, i.e. systematic investigations of weak field (10 kG or less) in degenerate stars (Aznar Cuadrado et al. 2004; Landstreet et al. 2012a), which definitely justify the use of a telescope with an 8 m size mirror. FORS1 has played also an important role in the study of faint but stronger magnetic white dwarfs (Kawka & Vennes 2012) and was used for the discovery of circular polarisation in the continuum and in the molecular bands of a DQ white dwarf (Vornanen et al. 2010).

When we look at the large number of observations of stars other than magnetic Ap/Bp stars, and the very small number of secure field detections, it is clear that most of the stellar magnetism programmes carried out on FORS1 of non-Ap/Bp stars were searches for fields in individual objects, or surveys of various classes of stars for detectable fields. The projects carried out have included large surveys of such star classes as Herbig Ae/Be stars, O stars, slowly pulsating B stars,  $\beta$  Cep B star pulsators, classical Be stars, normal B stars, and white dwarfs. A number of individual objects have also been studied.

However, from the  $\sim 1000$  measurements carried out on stars other than Ap stars and white dwarfs, we have only a few clear field detections, namely the pre-main-sequence star HD 101412, the  $\beta$  Cep variable HD 46328, the SPB stars HD 53921 and HD 152511, and the rapidly rotating star FK Com. In addition, a number of 3–6  $\sigma$  FORS1 detections have been reported in the literature (some of which still present in this catalogue). As thoroughly discussed by (Bagnulo et al. 2012), some of these detections have been proved by subsequent monitoring with FORS2 and ESPaDOnS to be real (e.g. the Of?p star HD 148937), but many of them have not been confirmed by our reduction, or by observations with other instruments, and are probably spurious. A small number of cases would deserve further investigations (e.g. the SPB star HD 138769, and the M giant star HD 298045).

The null results obtained in the various surveys of stars other than Ap stars are certainly valuable for setting upper limits on possible fields, e.g. on RR Lyrae stars (Kolenberg & Bagnulo 2009), on hot subdwarfs (see Landstreet et al. 2012b, and references therein), and on the central stars of planetary nebulae (Leone et al. 2011; Jordan et al. 2012). These results are often useful for constraining possible theoretical models of various kinds. The extremely low detection rate is mainly a consequence of the rarity in hot stars of fields that are large enough to be clearly detectable with FORS1 spectropolarimetry; such stars have a frequency of occurrence of 10 % or less. It may also be

a consequence of a tendency of both proposers and the OPC to prefer the 8 m telescope for exploration of new fields rather than systematic study of individual fields found. In any case, the low yield suggests that surveys with FORS need to be Large Projects, and that otherwise the instrument should focus more on systematic study of single objects in which the field is known to be large enough to be studied at useful S/N ratio with FORS.

#### 9. Conclusions

This paper is the concluding work in a series that started with the first demonstration that FORS1 could be used effectively for magnetic field measurements of main sequence stars (Bagnulo et al. 2002). This was followed by several years during which FORS1 (and, later, the twin instrument FORS2) was widely used for observations of many classes of stars. After some years it became apparent that a general discussion of the analysis of data obtained with dual-beam spectropolarimeters similar to that of FORS1 would be of considerable value to the community. This led to a paper presenting the fundamental ideas of the beam-swapping technique, and its application to night time astronomy (Bagnulo et al. 2009).

Further use of FORS1 led to announcements of numerous field discoveries at the 3 to  $5\sigma$  level. When these results were not confirmed by our own reduction of the data and/or were contradicted by observations with other spectropolarimeters such as ESPaDOnS, it became apparent (1) that correct treatment of FORS1 data is less obvious than it appears at first sight, especially in the regime of small uncertainties and marginal field detections, and (2) that the instrument itself may be subject to small drifts and flexures that lead to erroneous data in a small fraction of cases. These issues were discussed in considerable detail by Bagnulo et al. (2012), who developed a suite of programs allowing the entire dataset of all magnetic observations obtained with FORS1 to be reduced together, with a variety of options. This tool made it possible to show that modest and reasonable improvements to the data reduction process (for example, optimal choice of a clipping algorithm to deal with cosmic ray events) could change field detections into non-detections (and occasionally vice versa).

Bagnulo et al. (2012) also clearly identified the occurrence of occasional outliers in FORS1 data, in which a single observation inconsistent with others obtained with FORS1/2, could occur. An important source of such occasional outliers, and more generally of excess noise in FORS1/2 field measurements, was identified by Bagnulo et al. (2013), who showed that small shifts in line position may occur in FORS data, probably as a result of small flexures (including spectral shifts following the rotation of the retarder waveplate) and of seeing, and that these shifts can lead to spurious field detections.

The present paper builds on the accumulated experience and experiments represented by these earlier works, also including the detailed discussion of the large body of field measurements of AP/Bp stars by Landstreet et al. (2014). It does not, of course present *the* definitive reduction of the FORS1 magnetic dataset; as discussed in the earlier papers, several different choices made during data reduction are equally reasonable, but lead to somewhat different results. However, the reductions leading to the present catalogue are based on reasonable choices, applied in a consistent way to all the FORS1 field measurements, and they do rest on an understanding of, and correction of, small errors or poor choices made to treat data in the past.

The results compiled in this catalogue show that FORS is a very powerful instrument for (longitudinal) field measurement of both non-degenerate and degenerate stars. In the very best cases (for stars with rich spectra of deep lines), uncertainties of as low as 20 G or so can be achieved. Because of the outlier problem, new field detections should be repeated multiple times and/or made at the significance level of at least 5 or  $6\sigma$ . More typically, FORS can achieve realistic uncertainties of the order of 50–100 G for a wide range of stars down to V magnitude of 10 to 12, and  $\sim 500$  G uncertainties for white dwarfs of magnitude 12 or 13. The instrument is particularly well-suited to measurement of fields that can be detected at several  $\sigma$  level.

It should be borne in mind, however, that FORS makes very inefficient use of telescope time in observations of stars brighter than  $V \sim 7$ , for which the readout time of the CCD is larger than the integration time of each subexposure. This is the origin of the striking difference between shutter time and allocated time mentioned at the beginning of Sect. 6. There may be times when FORS may still be the best instrument for the job, but it is used most efficiently on stars for which subexposure times of some or many minutes are needed.

The relevance of most of the considerations made in this series of papers are not limited to the FORS1 instrument, but should be taken into account when using/designing other spectro-polarimeters.

Acknowledgements. This paper is based on observations made with ESO telescopes at the La Silla Paranal Observatory under the programme IDs listed in Table 3, and made available through the ESO archive. LF acknowledges support from the Alexander von Humboldt Foundation. Work on this project by JDL has been supported by the Natural Sciences and Engineering Research Council of Canada. We thank the referee P. Petit, for a careful review of the manuscript.

#### References

Appenzeller, I. 1967, PASP, 79, 136 Appenzeller, I., Fricke, K., Furtig, W., et al. 1998, The Messenger, 94, 1 Appenzeller, I., & Rupprecht, G. 1992, The Messenger, 67, 18 Avila, G., Rupprecht, G., & Beckers, J.M. 1997, SPIE, 2871, 1135

Aznar Cuadrado, R., Jordan, S., Napiwotzki, R. et al. 2004, A&A, 423, 1081 Bagnulo, S., Szeifert, T., Wade, G.A., Landstreet, J.D., & Mathys, G. 2002, A&A, 389, 191

Bagnulo, S., Landstreet, J. D., Mason, E., et al. 2006, A&A, 450, 777
Bagnulo, S., Landolfi, M., Landstreet, J.D., Landi Degl'Innocenti, E., Fossati, L., & Sterzik, M. 2009, PASP, 121, 993

Bagnulo, S., Landstreet, J.D., Fossati, L., & Kochukhov, O. 2012, A&A, 538, 129

Bagnulo, S., Fossati, L., Landstreet, J.D., & Kochukhov, O. 2013, A&A, 559, 103

Donati, J.-F, Semel, M., Carter, B.D., Rees, D.E., & Collier Cameron, A. 1997, MNRAS, 291, 658

Fossati, L., Bagnulo, S., Landstreet, J. D. & Kochukhov, O. 2015. In: Y. Y. Balega, I. I. Romanyuk, & D. O. Kudryavtsev (eds.) Physics and evolution of magnetic and related stars, (San Francisco: ASP), ASP Conf. Ser., 494, 63

Houk, N., Swift, C. 1999, "Michigan catalogue of two-dimensional spectral types for the HD Stars; vol. 5", Ann Arbor, Michigan: Department of Astronomy, University of Michigan

Hubrig, S., Briquet, M., Schöller, M., et al. 2006, MNRAS, 369, 61 Hubrig, S., Briquet, M., De Cat, P., et al. 2009a, AN, 330, 317

Izzo, C., de Bilbao, L., Larsen, J., Bagnulo, S., Freudling, W., Moehler, S., & Ballester, P. 2010, SPIE, 7737, 773729

Jordan, S., Bagnulo, S., Werner, K., & O'Toole, S. J. 2012, A&A, 542, 64

Kawka, A., & Vennes, S. 2012, MNRAS, 425, 1394

Kochukhov, O., & Bagnulo, S. 2006, A&A, 450, 763

Kolenberg, K., & Bagnulo, S. 2012, A&A, 498, 543

Landstreet, J.D., Bagnulo, S., Fossati, L., Jordan, S., & O'Toole, S.J.O. 2012a, A&A 541, A100

Landstreet, J.D., Bagnulo, S., Valyavin, G.G., Fossati, L., Jordan, S., Monin, D., & Wade, G. A. 2012b, A&A, 545, 30

Landstreet, J.D., Bagnulo, S., & Fossati, L. 2014, A&A, 572, A113

Leone, F., Martínez González, M.J., Corradi, R.L. M., Privitera, G.; & Manso Sainz, R. 2011, ApJL, 731, 33

McCook, G.P., & Sion, E.M. 1999, ApJS, 121, 1

- Scarrott, S.M., Warren-Smith, R.F., Pallister, W.S., Axon, D.J., & Bingham, R.G. 1983, MNRAS, 204, 1163
- Sion, E.M., Greenstein, J.L., Landstreet, J.D., Liebert, J., Shipman, H.L., & Wegner, G.A. 1983, ApJ, 269, 253.
  Szeifert, Th., Reiss, R., Baksai, P., et al. 2007, The Messenger, 128, 9
  Vornanen, T., Berdyugina, S.V., Berdyugin, A.V., & Piirola, V. 2010, ApJ, 720,

- Wade, G.A., Bagnulo, S., Drouin, D., Landstreet, J.D., & Monin, D. 2007, MN-RAS, 376, 1145

 Table 5. Magnetic field and null field are calculated from the combination of H Balmer and metal lines.

Star Classification Prog. ID MJD grism $\langle B_z \rangle$ (G) $\chi^2/\nu$ $\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
	1 07	
WD 2359-434 WD:DA5:M 070.D-0259 52583.025 600B 3692 ± 842 1.02 496 ± 853	1.07	d-d
WD 2359-434 WD:DA5:M 070.D-0259 52608.056 600B $3144 \pm 528$ 1.02 $663 \pm 483$	0.86	D-D
HD 225041 MS:A:RR 082.D-0342 54781.102 1200B $4 \pm 32$ 1.49 $12 \pm 25$	0.96	nnn
HD 225264 MS:A1:AP 073.D-0498 53217.409 600B $-26 \pm 34$ 0.90 $-22 \pm 31$	0.79	nnn
HD 358 MS:B9:HGMN 071.D-0308 52910.092 600B $-304 \pm 123$ 1.08 $31 \pm 120$	1.02	nnn
HD 358 MS:B9:HGMN 072.D-0377 52963.020 600B $139 \pm 101$ 1.00 $-150 \pm 102$	1.01	nnn
HD 358 MS:B9:HGMN 075.D-0295 53519.448 1200g $-88 \pm 97$ 2.23 $194 \pm 107$	2.23	nnn
HD 358 MS:B9:HGMN 075.D-0295 53629.286 1200g 23 ± 30 1.21 23 ± 29	0.95	nnn
HD 358 MS:B9:HGMN 075.D-0295 53630.208 1200g $5 \pm 34$ 1.08 $-15 \pm 31$	0.94	nnn
HD 358 MS:B9:HGMN 075.D-0295 53638.205 $1200g -17 \pm 35$ 0.99 $-16 \pm 35$	0.96	nnn
HD 358 MS:B9:HGMN 380.D-0480 54432.045 1200B $-25 \pm 25$ 0.89 $48 \pm 24$	0.80	nnn
HD 358 MS:B9:HGMN 380.D-0480 54433.023 1200B $-25 \pm 23$ 1.87 $-27 \pm 20$	1.38	nnn
HD 1048 MS:A1:AP 071.D-0308 52910.103 600B $219 \pm 83$ 0.92 $-203 \pm 84$	0.95	dnn
HD 1048 MS:A1:AP 073.D-0464 53199.406 600B $-46 \pm 38$ 0.91 $-44 \pm 37$	0.88	nnn
HD 1048 MS:A1:AP 073.D-0464 53215.382 600B $57 \pm 44$ 1.16 $-26 \pm 42$	1.10	nnn
NLTT 888 WD:DAZ9:HPM 080.D-0521 54419.126 600B		_
NLTT 888 WD:DAZ9:HPM 080.D-0521 54446.049 600B		_
RX Cet MS:A:RR 082.D-0342 54782.153 1200B 9 ± 48 1.45 107 ± 47	1.42	nnn
HD 3326 MS:A5:AP 072.D-0377 52908.190 600B $-3 \pm 35$ 0.92 $-100 \pm 35$	0.92	nnn
HD 3379 MS:B2:SPB 073.D-0466 53244.402 600B 93 ± 46 0.99 -53 ± 46	1.03	nnn
HD 3379 MS:B2:SPB 073.D-0466 53245.214 600B -47 ± 34 0.87 -24 ± 35	0.97	nnn
HD 3379 MS:B2:SPB 075.D-0295 53629.305 1200g -8 ± 27 0.99 18 ± 25	0.87	nnn
HD 3379 MS:B2:SPB 075.D-0295 53630.195 1200g -22±31 1.05 8±30	1.03	nnn
HD 3379 MS:B2:SPB 078.D-0140 54109.051 600B $9 \pm 57$ 0.77 $20 \pm 41$	0.75	nnn
HD 3379 MS:B2:SPB 078.D-0140 54112.025 600B 18 ± 45 1.13 -27 ± 42	0.96	nnn
HD 3379 MS:B2:SPB 079.D-0241 54344.233 600B $66 \pm 35$ 0.73 $-126 \pm 43$	0.76	nnn
HD 3379 MS:B2:SPB 079.D-0241 54345.190 600B -16 ± 40 0.85 -37 ± 45	0.73	nnn
NLTT 2219 WD:DA8:HPM 080.D-0521 54448.083 600B	0.75	
HD 3980 MS:A7:M.AP 075.D-0295 53624.076 1200g 463 ± 31 4.11 15 ± 15	0.97	dDD
HD 3980 MS:A7:M:AP 075.D-0295 53630.232 1200g 408 ± 30 9.75 29 ± 10	0.97	DDD
HD 3980 MS:A7:M.AP 380.D-0480 54432.010 1200B $-866 \pm 24$ 7.47 $30 \pm 11$	1.45	DDD
HD 3980 MS:A7:M.AP 380.D-0480 54433.039 1200B 1688 ± 29 12.39 -12 ± 11	1.02	DDD
HD 3980 MS:A:M.AP 075.D-0295 53559.410 1200g 1147 ± 30 4.61 6 ± 12	0.75	DDD
CD-38 222 SD:B 075.D-0352 53574.364 600B $54 \pm 148$ 0.90 $56 \pm 156$	1.00	nnn
CD=38 222 SD:B 075.D=0352 53574.304 000B $34 \pm 148$ 0.90 $30 \pm 130$ CD=38 222 SD:B 075.D=0352 53624.097 600B $-234 \pm 201$ 0.93 $217 \pm 284$	1.06	nnn
$073.D-0332$ $000B$ $-234\pm201$ $0.93$ $217\pm284$ $0.94$ $000B$ $0.95$ $0$	0.92	nnd
	0.92	
	1.05	nnn
		ndd
	0.89	nnn
CD-53 251 PM:F2 074.C-0442 53330.085 1200g 109 ± 33 0.88 8 ± 32	0.81	ndd
CD-53 251 PM:F2 081.C-0410 54610.400 600B 10±32 0.77 -67±41	0.76	nnn
WD 0115+159 WD:DQ6 082.D-0736 54786.159 600B	0.02	
HD 8783 MS:A2:AP 071.D-0308 52852.358 600B 57 ± 74 0.91 -143 ± 75	0.93	nnn
HD 9289 MS:A3:M.AP.ROAP 269.D-5044 52519.252 600B 760 ± 56 1.29 13 ± 47	0.92	DDD
HD 9672 MS:A1 081.C-0410 54610.437 600B -100 ± 32 0.86 22 ± 33	0.78	dnd
PG 0133+114 SD:B 075.D-0352 53638.250 600B -778 ± 376 0.97 290 ± 437	0.90	dnn
WD 0135-052 WD:DA7 070.D-0259 52608.097 600B -318 ± 416 1.13 244 ± 388	0.98	n-n
WD 0136-340 WD:DA8:HPM 080.D-0521 54381.205 600B -1016 ± 2542 0.79 -1617 ± 2643	0.85	n-n
CD-24 731 SD:B 075.D-0352 53629.135 600B 536 ± 373 1.07 601 ± 487	1.14	n-n
HD 10840 MS:B9:M.AP 073.D-0464 53184.331 600B -174 ± 42 0.77 107 ± 42	0.75	dnd
NLTT 6004 WD:DA8:HPM 080.D-0521 54407.220 600B -12297 ± 3823 0.60	0.76	d-d
HD 11462 MS:B8:SPB 079.D-0241 54344.248 600B 21 ± 45 0.78 103 ± 55	0.76	nnn
NLTT 6390 WD:DAZ8:HPM 080.D-0521 54405.182 600B -2845 ± 5635 0.95		n-n
CD-28 595 MS:G:HPM 082.D-0695 54829.015 300V 1886 ± 1164 0.83		nnn
CD-28 595 MS:G:HPM 082.D-0695 54830.035 300V -1048 ± 1023 0.75		nnn
CD-28 595 MS:G:HPM 082.D-0695 54831.032 300V -1513 ± 1357 0.73		nnn
HD 12932 MS:A5:M.AP.ROAP 269.D-5044 52517.383 600B 915 ± 67 1.20 8 ± 60	0.97	dDD
SS For MS:A:RR 082.D-0342 54781.050 1200B 34 ± 35 1.15 -37 ± 34	1.10	nnn
SS For MS:A:RR $082.D-0342$ $54782.279$ $1200B$ $-43 \pm 45$ $1.44$ $-37 \pm 40$	1.18	nnn
SS For MS:A:RR 082.D-0342 54783.177 1200B 42±56 1.13 126±61	1.34	nnn
HD 13588 MS:A1:AM 060.A-9203 53717.023 300V $778 \pm 449$ 0.85 $170 \pm 443$	0.85	nnn
HD 13588 MS:A1:AM 076.D-0435 53715.018 300V $-92 \pm 367$ 0.86 $-541 \pm 363$	0.84	nnn
HD 13588 MS:A1:AM 076.D-0435 53715.022 600B $42 \pm 130$ 0.87 $143 \pm 130$	0.87	nnn
HD 13588 MS:A1:AM 082.D-0695 54829.031 300V $-1107 \pm 503$ 0.90 $1490 \pm 466$	0.77	nnn
RV Cet MS:A:RR 082.D-0342 54781.252 1200B -21 ± 34 1.51 57 ± 30	1.24	nnn
NLTT 7547 WD:DAZ9:HPM 080.D-0521 54447.136 600B		_
NLTT 7547 WD:DAZ9:HPM 080.D-0521 54447.172 600B		

Table 5. continued.

Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
WD 0227+050	WD:DA3	070.D-0259	52637.120	600B	$693 \pm 584$	1.01	$-396 \pm 695$	0.95	n-n
WD 0227+050	WD:DA3	070.D-0259	52669.062	600B	$-507 \pm 588$	1.02	$986 \pm 677$	0.91	n-n
HD 16456	MS:A:RR	082.D-0342	54782.108	1200B	$-9 \pm 43$	1.40	$32 \pm 35$	1.06	nnn
HD 16456	MS:A:RR	082.D-0342	54783.257	1200B	$119 \pm 43$	1.24	$15 \pm 35$	0.93	nnn
NLTT 8525	WD:DC:HPM	080.D-0521	54397.126	600B					_
HD 16582	MS:B2:BCEP	078.D-0140	54047.129	600B	$45 \pm 95$	0.96	$142 \pm 91$	0.89	nnn
HD 16582	MS:B2:BCEP	078.D-0140	54040.170	600B	$96 \pm 37$	0.93	$11 \pm 39$	0.90	nnn
HD 16582	MS:B2:BCEP	078.D-0330	54109.071	600R	$-190 \pm 79$	1.06	$-76 \pm 83$	0.97	nnn
HD 16582	MS:B2:BCEP	079.D-0241	54343.259	1200B	$-59 \pm 16$	1.38	$-11 \pm 13$	0.97	dnd
HD 16582	MS:B2:BCEP	079.D-0241	54344.200	1200B	$6 \pm 18$	1.42	$23 \pm 14$	0.88	nnn
HD 16582	MS:B2:BCEP	079.D-0241	54344.264	1200B	$2 \pm 15$	1.08	$-40 \pm 14$	0.66	nnn
HD 16582	MS:B2:BCEP	079.D-0241	54345.246	1200B	$-3 \pm 18$	1.17	$-66 \pm 18$	1.13	nnn
HD 16582	MS:B2:BCEP	079.D-0241	54345.293	1200B	$0 \pm 15$	1.09	$-11 \pm 12$	0.73	nnn
HD 16582 NLTT 8733	MS:B2:BCEP	078.D-0330	54014.211 54397.164	600R 600B	$-130 \pm 66$	1.06	$-144 \pm 60$	0.96	nnn
HD 17081	WD:DQ:HPM PM:B7	080.D-0521 074.C-0442	53331.053	600B	$139 \pm 59$	1.01	$-129 \pm 56$	0.90	
HD 17081 HD 17081	PM:B7	074.C-0442 074.C-0442	53331.053	1200g	$139 \pm 39$ $53 \pm 45$	0.98	$-129 \pm 30$ $75 \pm 42$	0.90	nnn
HD 17081 HD 19918	MS:A5:M.AP	072.D-0377	52908.210	600B	$-751 \pm 63$	1.05	$73 \pm 42$ $21 \pm 56$	0.85	nnn DDD
HD 19400	MS:B8	071.D-0308	52852.371	600B	$-731 \pm 63$ $170 \pm 85$	1.03	$-162 \pm 77$	0.80	nnn
HD 21190	G:F2:V	071.D-0308 079.D-0241	54343.280	600B	$170 \pm 85$ $14 \pm 16$	0.82	$-102 \pm 77$ $42 \pm 19$	0.74	nnn
HD 19712	MS:A0:M.AP	072.D-0377	52905.384	600B	$-1187 \pm 87$	1.02	$-61 \pm 99$	0.88	DDD
HD 19712	MS:A0:M.AP	072.D-0377	52999.025	600B	$903 \pm 59$	1.41	$38 \pm 46$	0.85	DDD
WD 0310-688	WD:DA3	070.D-0259	52695.054	600B	$197 \pm 414$	0.97	$-358 \pm 441$	0.93	n-n
WD 0310-688	WD:DA3	080.D-0521	54405.249	600B	$3773 \pm 3493$	0.87	330 ± 111	0.75	n-n
RX For	MS:A:RR	082.D-0342	54783.220	1200B	$9 \pm 55$	1.17	$75 \pm 59$	1.32	nnn
NLTT 10480	WD:DAZ9:HPM	080.D-0521	54405.224	600B					_
NLTT 10884	WD:DA7:HPM	080.D-0521	54400.144	600B	$-4756 \pm 6009$	0.92			n-n
X Ret	MS:A:RR	082.D-0342	54782.219	1200B	$-45 \pm 47$	1.18	$-21 \pm 45$	1.08	nnn
NLTT 11051	WD:DC:HPM	080.D-0521	54407.269	600B					_
HD 22488	MS:A3:AP	073.D-0464	53087.014	600B	$17 \pm 26$	0.91	$27 \pm 26$	0.94	nnn
CD-26 1339	CP	072.D-0089	52946.291	600B	$207 \pm 318$	0.94	$359 \pm 333$	1.05	nnn
CD-26 1339	CP	072.D-0089	52988.235	600B	$265 \pm 269$	0.91	$-36 \pm 262$	0.83	nnn
CD-26 1339	CP	072.D-0089	52989.060	600B	$354 \pm 364$	1.08	$105 \pm 370$	1.10	nnn
CD-26 1339	CP	072.D-0089	52990.081	600B	$86 \pm 313$	0.90	$56 \pm 290$	0.77	nnn
NLTT 11393	WD:DAZ8:HPM	080.D-0521	54407.322	600B	$5497 \pm 6080$	0.86			n-n
HD 22374	MS:A1:AP	072.D-0377	52999.039	600B	$-135 \pm 50$	1.02	$-57 \pm 50$	1.02	nnn
HD 22374	MS:A1:AP	073.D-0464	53216.380	600B	$28 \pm 38$	1.80	$-137 \pm 52$	2.29	nnn
HD 278937	PM:A3	074.C-0442	53330.181	600B	$20 \pm 90$	0.94	$-4 \pm 84$	0.82	nnn
HD 23207	MS:A2:M.AP	073.D-0464	53215.361	600B	$159 \pm 44$	1.44	$27 \pm 40$	1.18	nnd
HD 23207	MS:A2:M.AP	073.D-0464	53218.336	600B	$614 \pm 47$	4.68	$-7 \pm 33$	2.21	dDD
WD 0341+182	WD:DQ8	082.D-0736	54787.175	600B	520 44	1.00	50 41	0.02	
HD 24188	MS:A0:M.AP	073.D-0464	53087.032	600B	$538 \pm 44$	1.09	$-58 \pm 41$	0.93	DDD
PG 0342+026	SD:B	075.D-0352	53593.377	600B	$-121 \pm 174$	0.99	$258 \pm 204$	0.92	nnn
HD 23408	MS:B7:HEW	072.D-0377	52963.155	600B	$-80 \pm 64$	0.94	$-78 \pm 81$	0.98	nnn
HD 23598	MS:B8:SPB	079.D-0241	54344.397	600B	$-20 \pm 44$	0.73	$-45 \pm 55$	0.78	nnn
WD 0346-011 WD 0346-011	WD:DA1 WD:DA1	070.D-0259 070.D-0259	52637.176 52674.078	600B 600B	$2009 \pm 3239$ $2753 \pm 3111$	1.03 1.26	$767 \pm 3350$ $2645 \pm 3242$	1.10 1.36	n-n
HD 275877	PM:A2:V	070.D-0239 074.C-0442	53330.222	600B	$-159 \pm 57$	0.92	$-27 \pm 57$	0.92	n-n
HD 23950	MS:B9:HGMN	073.D-0464	53216.419	600B	$-139 \pm 37$ $60 \pm 41$	0.92	$-27 \pm 37$ $99 \pm 38$	0.92	nnn nnn
HD 24626	MS:B6	078.D-0404	54086.134	600B	$39 \pm 70$	1.02	$44 \pm 66$	0.90	nnn
HD 24587	MS:B5:SPB	072.D-0377	52971.071	600B	$-37 \pm 80$	1.02	$-11 \pm 70$	0.78	nnn
HD 24587	MS:B5:SPB	075.D-0295	53574.415	1200g	$-12 \pm 50$	1.16	$38 \pm 48$	1.05	nnn
HD 24587	MS:B5:SPB	075.D-0295	53630.252	1200g	$18 \pm 41$	1.12	$0 \pm 36$	0.88	nnn
HD 24587	MS:B5:SPB	078.D-0140	54086.174	600B	$-107 \pm 69$	0.83	$-64 \pm 69$	0.84	nnn
HD 24587	MS:B5:SPB	079.D-0241	54343.301	600B	$-30 \pm 63$	0.80	$-84 \pm 61$	0.74	nnn
HD 25558	MS:B3:SPB	078.D-0140	54086.244	600B	$-78 \pm 65$	0.92	$-60 \pm 64$	0.90	nnn
HD 25558	MS:B3:SPB	079.D-0241	54345.264	600B	$43 \pm 41$	0.84	$-37 \pm 40$	0.79	nnn
HD 26326	MS:B5:SPB	072.D-0377	52909.389	600B	$-30 \pm 80$	1.05	$-69 \pm 74$	0.91	nnn
HD 26326	MS:B5:SPB	073.D-0466	53218.357	600B	$-8 \pm 57$	0.88	$83 \pm 57$	0.88	nnn
HD 26326	MS:B5:SPB	075.D-0295	53630.370	1200g	$-32 \pm 29$	1.16	$19 \pm 25$	0.92	nnn
HD 26326	MS:B5:SPB	078.D-0140	54086.262	600B	$-71 \pm 64$	0.77	$-7 \pm 69$	0.89	nnn
HD 26739	MS:B5:SPB	079.D-0241	54344.283	600B	$-20 \pm 38$	0.77	$126 \pm 37$	0.75	nnn
HD 26676	MS:B8	074.C-0463	53277.345	1200g	$36 \pm 112$	0.98	$240 \pm 129$	0.99	nnn
HD 27742	MS:B8:SPB	079.D-0241	54345.355	600B	$-29 \pm 60$	0.97	$75 \pm 52$	0.73	nnn
HD 28114	MS:B6:SPB	073.D-0466	53223.413	600B	$-37 \pm 89$	0.93			nnn
HD 28114	MS:B6:SPB	075.D-0295	53638.395	1200g	$-29 \pm 47$	0.95	$32 \pm 48$	0.99	nnn
HD 28114	MS:B6:SPB	078.D-0140	54106.091	600B	$-128 \pm 52$	1.22	$148 \pm 43$	0.96	dnn

Table 5. continued.

Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
HD 28475	MS:B5:SPB	078.D-0140	54107.129	600B	$101 \pm 50$	0.99	$41 \pm 50$	0.99	nnn
HD 28475	MS:B5:SPB	079.D-0241	54345.312	600B	$5 \pm 40$	0.77	$89 \pm 53$	0.80	nnn
LSR J04356-6105	WD:DC:HPM	080.D-0521	54404.321	600B					
HD 29248	GS:B2:BCEP	075.D-0295	53629.322	1200g	$-84 \pm 38$	1.01	$0 \pm 35$	0.87	nnn
HD 29248	GS:B2:BCEP	075.D-0295	53630.347	1200g	$-45 \pm 24$	1.37	$-69 \pm 26$	1.18	nnn
HD 29248 WD 0435-088	GS:B2:BCEP	078.D-0140 082.D-0736	54086.286 54787.274	600B 600B	$75 \pm 67$	0.96	$-11 \pm 65$	0.91	nnn
HD 29376	WD:DQ7 MS:B3:SPB.SB	079.D-0241	54345.279	600B	$48 \pm 51$	0.75	$25 \pm 53$	0.81	nnn
HD 30612	MS:B9:AP	073.D-0241	53087.046	600B	$34 \pm 43$	0.75	$-10 \pm 43$	0.93	nnn
WD 0446-789	WD:DA3:M	070.D-0259	52609.229	600B	$-2618 \pm 805$	1.12	$1200 \pm 787$	1.09	d-d
WD 0446-789	WD:DA3:M	070.D-0259	52668.087	600B	$-5235 \pm 974$	1.21	$-915 \pm 953$	1.16	D-D
HD 30598	MS:A1:AP	073.D-0498	53249.321	600B	$-5 \pm 114$	1.19	$252 \pm 114$	1.20	nnn
HD 30598	MS:A1:AP	074.D-0488	53399.080	600B	$125 \pm 53$	0.89	$-117 \pm 55$	0.92	nnn
HD 31293	PM:A0:P.E	074.C-0442	53331.178	600B	$-107 \pm 108$	0.92	$-10 \pm 108$	0.91	nnn
U Lep	MS:A:RR	082.D-0342	54781.213	1200B	$-58 \pm 45$	1.34	$143 \pm 38$	1.08	nnn
HD 31648	PM:A3:P.E.SH	074.C-0442	53331.194	600B	$102 \pm 66$	0.98	$21 \pm 61$	0.84	ndn
HD 31648	PM:A3:P.E.SH	074.C-0463	53296.355	1200g	$-32 \pm 45$	1.14	$-85 \pm 42$	1.02	nnn
HD 293782	PM:A3:E	074.C-0442	53330.114	600B	$-78 \pm 68$	0.85	$60 \pm 72$	0.93	nnn
HD 33331 NLTT 14553	GS:B5:SPB WD:DQ:HPM	079.D-0241 080.D-0521	54344.425 54501.128	600B 600B	$-6 \pm 37$	0.78	$-31 \pm 43$	0.70	nnn
NLTT 14558	WD:DA9:HPM	080.D-0521	54496.106	600B					
HD 33328	MS:B2:E	077.D-0406	53955.400	600B	$-86 \pm 35$	1.00	$7 \pm 33$	0.89	nnn
HD 33328	MS:B2:E	380.D-0480	54432.114	1200B	$46 \pm 18$	1.20	$1 \pm 14$	0.68	nnn
HD 33328	MS:B2:E	380.D-0480	54433.114	1200B	$33 \pm 22$	1.77	$77 \pm 16$	0.88	nnn
HD 33904	MS:B9:HGMN	380.D-0480	54432.179	1200B	$-54 \pm 36$	1.17	$65 \pm 43$	1.00	nnn
TD1 32702	SD:B	072.D-0290	53058.025	600B	$158 \pm 143$	1.01	$128 \pm 177$	1.04	nnn
HD 273211	MS:A:RR	082.D-0342	54781.162	1200B	$4 \pm 41$	1.43	$67 \pm 41$	1.39	nnn
HD 34282	PM:A0:SH.E	074.C-0442	53330.146	600B	$1 \pm 76$	0.96	$0 \pm 73$	0.91	nnn
HD 34798	MS:B3:SPB	073.D-0466	53218.407	600B	$-106 \pm 45$	0.88	$115 \pm 52$	0.84	nnn
HD 34798	MS:B5:SPB	072.D-0377	52999.055	600B	$79 \pm 76$	1.10	$-39 \pm 73$	1.01	nnn
HD 34798	MS:B5:SPB	075.D-0295	53638.366 54100.150	1200g 600B	$-35 \pm 24$	0.96 1.05	$-30 \pm 24$	0.87 1.12	nnn
HD 34798 HD 34797	MS:B5:SPB MS:B8:M.HEW	078.D-0140 072.D-0377	52999.066	600B	$45 \pm 70$ $1229 \pm 75$	0.89	$-162 \pm 68$ $37 \pm 72$	0.84	nnn DDD
HD 35008	MS:B9:M.AP	072.D-0377 074.D-0488	53399.015	600B	$-321 \pm 66$	0.86	$-75 \pm 70$	0.84	dnd
HD 35000 HD 35187	PM:A2:E	074.C-0442	53331.231	600B	$-18 \pm 59$	0.88	$17 \pm 58$	0.87	nnn
HD 35187	PM:A2:E	074.C-0442	53331.251	600B	$121 \pm 58$	0.97	$-114 \pm 55$	0.89	nnn
HD 287841	PM:A5:E	074.C-0442	53330.299	600B	$-8 \pm 69$	0.90	$-46 \pm 68$	0.89	nnn
HD 35929	PM:A3:E	074.C-0442	53331.094	600B	$63 \pm 40$	0.92	$45 \pm 40$	0.90	nnn
HD 35929	PM:A3:E	074.C-0463	53297.365	1200g	$-1 \pm 16$	1.65	$-11 \pm 12$	1.02	nnn
HD 36046	MS:B8:HEW	074.D-0488	53400.056	600B	$-9 \pm 74$	0.84	$50 \pm 78$	0.92	nnn
HD 36112	PM:A8:E	074.C-0442	53331.210	600B	$-92 \pm 67$	0.85	$119 \pm 69$	0.92	nnn
HD 244604	PM:A3	074.C-0442	53331.123	600B	$-12 \pm 59$	0.88	$-71 \pm 57$	0.84	nnn
GJ 206	MS:M3:FLS	082.D-0695	54831.042	300V	$38 \pm 394$	1.41	90 . 40	0.66	-nn
HD 36540 HD 36559	MS:B7:M.AP MS:B9	070.D-0352 070.D-0352	52678.070 52678.070	600B 600B	$312 \pm 51$ $48 \pm 61$	0.74 0.69	$89 \pm 49$ $51 \pm 59$	0.66 0.68	DnD
HD 36549	MS:B7:HEW	070.D-0332 074.D-0488	53400.085	600B	$-27 \pm 71$	0.87	$-122 \pm 71$	0.88	nnn nnn
NSV 2123	MS:G5:V	070.D-0352	52678.089	600B	$129 \pm 99$	0.77	$187 \pm 92$	0.68	nnn
HD 36629	MS:B2:V	070.D-0352	52678.089	600B	$27 \pm 47$	0.70	$-4 \pm 46$	0.65	nnn
HD 36671	MS:B9	070.D-0352	52678.089	600B	$55 \pm 57$	0.71	$-4 \pm 53$	0.64	nnn
HD 36918	MS:B9	070.D-0352	52679.090	600B	$84 \pm 51$	0.82	$-11 \pm 56$	0.94	nnn
HD 36916	MS:B8:M.HEW	070.D-0352	52679.042	600B	$-582 \pm 48$	0.81	$79 \pm 50$	0.94	DnD
HD 36960	MS:B0	070.D-0352	52679.071	600B	$-47 \pm 43$	0.87	$-18 \pm 45$	0.91	nnn
HD 245185	PM:A5	074.C-0442	53331.154	600B	$94 \pm 87$	0.91	$-197 \pm 86$	0.90	nnn
HD 36982	MS:B2:P	070.D-0352	52678.049	600B	$96 \pm 178$	0.66	$49 \pm 177$	0.65	nnn
HD 290665	MS:A0:M.AP	074.D-0488	53399.056	600B	$-1828 \pm 58$	1.43	$-112 \pm 45$	0.86	DDD
HD 37022	MS:O6:M.P.E	078.D-0330	54114.150	600R	$-122 \pm 142$	1.17	$117 \pm 137$	0.98	-nn
HD 37022 HD 37022	MS:O6:M.P.E MS:O5:M.P.E	078.D-0330 070.D-0352	54116.057 52678.049	600R 600B	$-381 \pm 95$ $141 \pm 58$	1.14 0.72	$-18 \pm 89$ $-64 \pm 57$	0.95 0.73	-dd ndn
HD 37022 HD 37022	MS:O5:M.P.E MS:O6:M.P.E	078.D-0330	54107.220	600B	$141 \pm 38$ $418 \pm 81$	1.15	$-64 \pm 37$ $140 \pm 85$	1.05	-DD
HD 37022	MS:O6:M.P.E	078.D-0330	54107.220	600R	$506 \pm 133$	1.13	$-102 \pm 113$	0.97	-dd
HD 37022	MS:O6:M.P.E	078.D-0330	54112.174	600R	$304 \pm 101$	1.10	$-220 \pm 102$	0.89	-dd
HD 37022	MS:O6:M.P.E	078.D-0330	54155.062	600R	$439 \pm 104$	1.43	$-202 \pm 89$	1.05	-dd
HD 37022	MS:O6:M.P.E	078.D-0330	54156.072	600R	$510 \pm 76$	1.43	$2 \pm 67$	1.10	-DD
HD 37022	MS:O6:M.P.E	078.D-0330	54157.051	600R	$369 \pm 78$	1.51	$47 \pm 69$	0.99	-dd
HD 37022	MS:O6:M.P.E	078.D-0330	54158.085	600R	$118 \pm 84$	1.23	$-46 \pm 90$	1.14	-nn
HD 37022	MS:O6:M.P.E	078.D-0330	54177.063	600R	$-55 \pm 92$	0.99	$113 \pm 96$	1.10	-nn
HD 37022	MS:O6:M.P.E	078.D-0330	54182.048	600R	$230 \pm 73$	1.25	$-12 \pm 68$	0.83	-dd

Table 5. continued.

HD 370H   MS:B1	Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
HD 58679										
Total										
HD37151   MS.BR.SPB   078.D-0.104   54107.154   600B   -54±49   0.97   -79±47   0.90   mn										
M38100   PM:AlbM.E										
HD 372120						-34 ± 49	0.57	-70±47	0.90	
HD 37258   PM:A2						-62 + 60	0.92	137 + 58	0.83	nnn
BF Ori										
HD 373333										
HD 37357			074.D-0488							
HD 374728   MS:A0	HD 37357	PM:A0:E	074.C-0442	53332.157	600B		0.83		0.77	nnn
HD 37470   PM:S18:AP   070L-0452   \$2678.117   600B   -95±33   0.68   \$211±52   0.69   nmn   HD 37490   PM:B3:E   074-C0-442   \$3332.171   600B   -77±119   1.00   6.83   -211±98   0.94   nmn   HD 3763   MS:B9:MAP   074-C0-442   \$3332.171   600B   470±66   0.91   6.00±65   0.94   dold   MD 37776   MS:B2:MHSS   072-D0-119   52940.368   300V   -476±928   1.00   -234±1056   0.87   nmn   HD 37806   PM:AO   074-C0-442   53332.193   600B   53±61   0.94   6.94   0.84   nmn   HD 37806   PM:AO   074-C0-442   53332.202   1200g   -121±56   0.91   163±54   0.83   nmn   MS:B0   606.A-9900   54852.205   600B   -843±912   0.94   0.	HD 37411	PM:B9	074.C-0442	53330.320	600B	$-69 \pm 68$	0.88	$-39 \pm 66$	0.86	nnn
HD 37490										nnn
HD 37490   PM:B3:E										nnn
HD 37763										
HD 37776   PM:A0										
HD 37806   PM:A0										
HD 37806										
NGC 2024   MS:B0										
NGC 2024 1 MS:B0 060.A-9200 54815.199 300V -90+801 1.04 -254±733 0.87 nnn NGC 2024 1 MS:B0 060.A-9800 54815.219 300V -204±306 0.87 513±430 1.67 nnn NGC 2024 1 MS:B0 060.A-9800 54815.219 300V -204±306 0.87 513±430 1.67 nnn NGC 2024 1 MS:B0 060.A-9800 54820.182 300V -601±1393 0.60 -704±1532 0.73 nnn NGC 2024 1 MS:B0 060.A-9800 54820.182 300V -601±1393 0.60 -704±1532 0.73 nnn NGC 2024 1 MS:B0 060.A-9800 54820.182 300V -262±1319 0.77 nnn NGC 2024 1 MS:B0 060.A-9800 54820.182 300V -262±1319 0.77 nnn NGC 2024 1 MS:B0 060.A-9800 54820.187 300V -262±1319 0.77 nnn NGC 2024 1 MS:B0 060.A-9800 54820.187 300V -262±1319 0.77 nnn NGC 2024 1 MS:B0 060.A-9800 54820.187 300V -262±1319 0.77 nnn NGC 2024 1 MS:B0 060.A-9800 54820.167 300V -262±1319 0.77 nnn NGC 2024 1 MS:B0 060.A-9800 54820.167 300V -262±1319 0.77 nnn NGC 2024 1 MS:B0 060.A-9800 54820.167 300V -262±1319 0.77 nnn NGC 2024 1 MS:B0 060.A-9800 54820.167 300V -262±1319 0.77 nnn NGC 2024 1 MS:B0 060.A-9800 54820.167 300V -262±1319 0.77 nnn NGC 2024 1 MS:B0 072.D-0464 53249.367 600B 37±44 1.34 -1.36±40 1.16 nnn NGC 2060 MS:A64CSD 081.C-0410 54609.954 600B -12±23 0.76 -85±25 0.87 nnn NGC 2060 MS:A64CSD 081.C-0410 54609.954 600B 87±214 1.03 -536±269 0.99 nnn NGC 2060 MS:A64CSD 079.D-0241 54344.411 600B -11±2 34 0.84 -28±42 0.77 nnd WD0548-001 WD:DQPS 082.D-0736 54787.330 600B 87±214 1.03 -536±269 0.99 nnn NGC 2160 MS:A64CSD 079.D-0241 54343.47 600B 34±30 0.86 41±29 0.78 nnn NGC 2160 1 MS:A64CSD 070.D-0352 52678.153 600B -105±44 1.07 77±45 1.14 1.07 1.10 0.79 nnn NGC 2160 12 MS:A0MAP 082.D-0342 54782.316 1200B -105±44 1.07 77±45 1.14 1.07 1.15 0.14 1.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15										
NGC 2024 1 MS:B0								113 ± 1014	0.00	
NGC 2024 1 MS:B0 060.A-9800 54815.219 300V -2-04±300 0.87 513±430 1.67 nm NGC 2024 1 MS:B0 060.A-9800 54820.118 300V -266±15193 0.60 -7-04±1532 0.73 nm NGC 2024 1 MS:B0 060.A-9800 54820.167 300V 2120±1540 0.80 -288±1524 0.79 nm NGC 2024 1 MS:B0 082.D-4695 54829.024 300V -262±1540 0.80 -288±1524 0.79 nm NGC 2024 1 MS:B0 082.D-4695 54829.024 300V -262±1540 0.80 -288±1524 0.79 nm NGC 2024 1 MS:B0 060.A-9800 54820.167 300V 79±1158 0.81 1263±1094 0.72 nm NGC 2024 1 MS:B0 060.A-9800 54820.167 300V 79±1158 0.81 1263±1094 0.72 nm NGC 2024 1 MS:B0 075.D-0295 53629.377 1200g -2±30 1.01 20±29 0.91 nm NGC 2024 1 MS:B0 082.D-464 53249.367 600B 37±44 1.34 -1.36±40 1.16 nm NGC 2024 1 MS:B0 082.D-464 53249.367 600B -12±23 0.76 -85±25 0.87 nm NGC 2024 1 MS:B0 074.C-0463 53296.272 1200g -148±58 1.27 98±66 1.29 nm NGC 2024 MS:B6:SPB 072.D-0290 53058.099 600B 87±214 1.03 -536±269 0.99 nm NGC 2024 MS:B6:SPB 072.D-0290 53058.099 600B 87±214 1.03 -536±269 0.99 nm NGC 2024 MS:B6:SPB 079.D-0241 54344.411 600B -117±34 0.84 -28±42 0.77 nm NGC 2024 MS:B2:SPB 079.D-0241 54344.411 600B -117±34 0.84 -28±42 0.77 nm NGC 2024 MS:B2:SPB 079.D-0241 54343.411 600B -19±113 0.96 111±103 0.99 nm NGC 2024 MS:B2:SPB 079.D-0241 54343.411 600B -19±113 0.96 111±103 0.99 nm NGC 2024 MS:B2:SPB 070.D-0352 52678.153 600B 49±27 1.24 -14±21 0.72 nm NGC 2069 1 MS:B2:B2 MS:B2 070.D-0352 52678.153 600B 49±27 1.24 -14±21 0.72 nm NGC 2069 1 MS:B2 070.D-0352 52678.153 600B 49±27 1.24 -14±21 0.72 nm NGC 2069 1 MS:A3MAP 070.D-0352 52678.153 600B -99±141 0.90 -172±111 0.85 DDD NGC 2169 12 MS:A0AMAP 070.D-0352 52678.153 600B 49±27 1.24 -14±21 0.72 nm NGC 2169 12 MS:A0AMAP 070.D-0352 52678.153 600B -99±14 110 0.90 -172±111 0.89 0.90 DDD NGC 2169 12 MS:A0AMAP 070.D-0352 52678.153 600B -99±14 1 0.90 -172±11 0.90 0.90 DDD NGC 2169 12 MS:A0AMAP 070.D-0352 52678.153 600B -99±14 1 0.90 -172±11 0.90 0.90 DDD NGC 2169 1 MS:A0AMAP 070.D-0352 52678.153 600B -99±14 1 0.90 0.90 DDD NGC 2169 1 MS:A0AMAP 070.D-0352 52678.153 600B -99±14 1 0.90 0.90 DDD NGC 2169 1 MS:A0AMAP 070.D-0352 5								-254 + 733	0.87	
NGC 2024 1 MS:B0 060.A-9800 5482.01.82 300V -661±1393 0.60 -704±1532 0.73 nnn NGC 2024 1 MS:B0 060.A-9800 5482.02.48 300V -262±1319 0.77 nnn NGC 2024 1 MS:B0 060.A-9800 5482.01.67 300V -262±1319 0.77 nnn NGC 2024 1 MS:B0 060.A-9800 5482.01.67 300V 794±1158 0.81 1263±1094 0.72 nnn HD 38238 MS:A7:DSCT 073.D-0464 53249.367 600B 37±44 1.34 -136±40 1.16 nnn NGC 2024 1 MS:B0 060.A-9800 5482.01.67 300V 794±1158 0.81 1263±1094 0.72 nnn HD 38238 MS:A7:DSCT 073.D-0464 53249.367 600B 37±44 1.34 -136±40 1.16 nnn NGC 2024 1 MS:B0 060.A-9800 5482.01.67 300V 794±1158 0.81 1263±1094 0.72 nnn NGC 2024 1 MS:B0 060.A-9800 5482.01.67 300V 794±1158 0.81 1263±1094 0.72 nnn NGC 2024 1 MS:B0 072.D-0295 53629.377 1200g -2±30 1.01 20±29 0.91 nnn NGC 2024 2 MS:A6CSD 074.C-0463 53296.272 1200g -148±58 1.27 98±66 1.29 nnn NGD 2024 1 MS:A6CSD 074.C-0463 53296.272 1200g -148±58 1.27 98±66 1.29 nnn NGD 2024 1 MS:B6:SPB 079.D-0241 54344.411 600B -117±34 0.84 -28±42 0.77 nnd MD 2048 NG:B6:SPB 079.D-0241 54344.411 600B -117±34 0.84 -28±42 0.77 nnd MD 2048 NG:B2:SPB 079.D-0241 54343.427 600B 34±30 0.86 41±29 0.78 nnn NG 2049 NG:B7E 074.C-0442 53332.220 600B 186±122 1.14 -39±104 0.79 nnn NG 2160 NG:B7E 074.C-0442 53332.220 600B 186±122 1.14 -39±104 0.79 nnn NG 2160 12 NG:B7E 074.C-0442 53332.220 600B 34±30 0.86 41±29 0.78 nnn NG 2160 12 NG:B7E 074.C-0442 53332.220 600B 34±30 0.86 41±29 0.78 nnn NG 2160 12 NG:B7E 074.C-0442 53332.220 600B 34±30 0.86 41±29 0.78 nnn NG 2160 12 NG:B7E 074.C-0442 53332.220 600B 34±30 0.86 41±29 0.79 nnn NG 2160 12 NG:B7E 074.C-0442 53332.220 600B 34±30 0.86 41±29 0.79 nnn NG 2160 12 NG:B7E 074.C-0442 53332.220 600B 34±30 0.86 41±29 0.79 nnn NG 2160 12 NG:B7E 074.C-0442 53332.220 600B 34±30 0.86 41±29 0.79 nnn NG 2160 12 NG:B7E 074.C-0442 53332.220 600B 34±30 0.96 111±103 0.79 nnn NG 2160 12 NG:B7E 074.C-0442 53332.220 600B 34±30 0.96 411±103 0.79 nnn NG 2160 12 NG:B7E 074.C-0442 53332.200 600B 34±40 0.96 411±103 0.79 nnn NG 2160 12 NG:B7E 074.C-0442 53332.200 0.96 NG:B8E 074 0.96 NG:BRE 074 0.96 NG:BRE 074 0.96 NG:BRE										
NGC 2024 1 MS:B0 08.2.D-0605 5482.9.04 300V 2120±1540 0.79 nm mm NGC 2024 1 MS:B0 08.2.D-0605 5482.9.04 300V 794±1158 0.81 1263±1094 0.72 nm mm NGC 2024 1 MS:B0 060.A-9800 5482.0.167 300V 794±1158 0.81 1263±1094 0.72 nm HB 38238 MS:A7:DSCT 073.D-0404 53249.367 000B 37±44 1.34 -136±40 1.16 nm HB 38238 MS:A7:DSCT 073.D-0404 53249.367 000B 37±44 1.34 -136±40 1.16 nm HB 39060 MS:A6:CSD 081.C-0410 54069.954 000B -12±23 0.76 -85±25 0.87 nm HB 39060 MS:A6:CSD 074.C-0403 53296.272 1200g -148±58 1.27 98±66 1.29 nm CPD-64±81 SD:B 072.D-0209 53058.069 000B 87±214 1.03 -536±269 0.99 nm HB 39044 MS:B6:SPB 079.D-0241 54344.411 600B 87±214 1.03 -536±269 0.99 nm HB 39844 MS:B6:SPB 079.D-0241 54344.411 600B -117±34 0.84 -28±42 0.77 nd WD 0548-001 WD:DQP8 08.2.D-0736 54787.330 600B 1.17±34 0.84 -28±42 0.77 nd WD 0548-001 WD:DQP8 08.2.D-0736 54787.330 600B 1.17±34 0.84 -28±42 0.77 nd 1.11±103 0.10±104.000 MS:B6:SPB 079.D-0241 54344.417 600B 34±30 0.866 41±29 0.78 mm HD 250550 PM:B7.E 074.C-0442 53332.220 600B 186±122 1.14 -39±104 0.79 nm HD 1335 MS:B2:E 080.D-0383 54549.982 600B -194±113 0.96 111±103 0.79 nm HD 1335 MS:B2:E 080.D-0383 54549.982 600B -194±113 0.96 111±103 0.79 nm HD 141909 GS:G0 070.D-0352 52678.153 600B 24±40 2.05 172±47 2.44 nm HD 2502214 MS:B2 070.D-0352 52678.153 600B 24±40 2.05 172±47 2.44 nm HD 2502214 MS:B2 070.D-0352 52678.153 600B 24±40 2.05 172±47 2.44 nm HD 2502266 MS:B3 070.D-0352 52678.153 600B -98±67 0.73 -69±67 0.67 nm HD 245059 MS:A3MAP 070.D-0352 52678.153 600B -194±114 0.90 -172±111 0.85 DDD RX Col MS:A:RR 08.2-D-0342 54781.308 1200B -17±55 0.70 32±55 0.69 nm HD 44743 GS:B:B:CEP 075.D-0295 53679.343 1200g -96±66 1.24 -18±65 1.21 nm HD 44743 GS:B:B:CEP 075.D-0295 53679.343 1200g -96±66 1.24 -18±65 1.21 nm HD 44743 GS:B:B:CEP 075.D-0295 53679.343 1200g -96±66 1.24 -18±65 1.21 nm HD 44743 GS:B:B:CEP 075.D-0295 53679.03 1200B -128±754 0.93 980±755 0.93 nm HD 45284 MS:BS:PB SB 073.D-0406 53252.07 600B -124±754 0.99 90.DD DD										
NGC 2024 1 MS:B0 060 A-9800 54829.024 300V -262±1319 0.77   mn   NGC 2024 1 MS:B0 060 A-9800 54820.167 300V -794±1158 0.81 1263±1094 0.72   nnn   HD 38238 MS:A7:DSCT 073.D-0464 53249.367 600B 37±44 1.34 -136±40 1.16   nnn   HD 38238 MS:A7:DSCT 075.D-0295 35629.377 1200g -2±30 1.01 20±29 0.91   nnn   HD 39060 MS:A6:CSD 074.C-0463 53296.272 1200g -148±58 1.27 98±66 1.29   nnn   HD 39060 MS:A6:CSD 074.C-0463 53296.272 1200g -148±58 1.27 98±66 1.29   nnn   HD 39060 MS:A6:CSD 074.C-0463 53296.272 1200g -148±58 1.27 98±66 1.29   nnn   HD 39060 MS:A6:CSD 079.D-0241 54344.411 600B 87±214 1.03 -536±269   0.99   nnn   HD 39844 MS:B6:SPB 079.D-0241 54344.411 600B -117±34 0.84 -28±42 0.77   nnd   WD 0548-001 WD:DQP8 082.D-0376 54787.330   600B   34±30   0.86   41±29   0.78   nnn   HD 250550 PM:B7:E 074.C-0442 53332.220   600B   186±122   1.14   -39±104   0.79   nnn   HD 251924 MS:A:RR 082.D-0342 54782.316   1200B -109±113   0.96   111±103   0.79   nnn   HD 251924 MS:A:RR 082.D-0342 54782.316   1200B -109±113   0.96   111±103   0.79   nnn   HD 419309 GS:G0 070.D-0352 52678.153   600B   24±40   2.05   172±47   2.44   nnn   HD 41909 GS:G0 070.D-0352 52678.153   600B   29±41   1.07   77±45   1.15   nnn   HD 252248 MS:B3 070.D-0352 52678.153   600B   -98±67   0.73   -69±67   0.67   nnn   HD 252248 MS:B3 070.D-0352 52678.153   600B   -7±55   0.70   32±55   0.69   nnn   HD 252248 MS:B3 070.D-0352 52678.153   600B   -7±455   0.70   32±55   0.69   nnn   HD 44743 GS:B1:BCEP 075.D-0295 5362.343   1200g   -32±20   0.74   -1±20   0.76   nnn   HD 44743 GS:B1:BCEP 075.D-0295 5362.343   1200g   -32±20   0.74   -1±20   0.76   nnn   HD 45284 MS:B3:SPB:SB 078.D-0140 54107.242   600B   -42±4733   0.86   -14±175   0.88   nnn   HD 45284 MS:B3:SPB:SB 078.D-0140 54107.242   600B   -42±4733   0.86   -14±47   0.99   0.75   0.93   nnn   HD 45284 MS:B3:SPB:SB 078.D-0140 54107.242   600B   -42±4733   0.86   -14±65   1.21   nnn   HD 46328 GS:B1:M.BCEP 075.D-0295 53475.046   1200g 317±22   0.56   6±19   0.44   DDD   HD 46328 GS:B1:M.BCEP 075.D-0295 5345										
NGC 2024 1 MS:B0								200 = 102.	0.,,	
HD38238   MS:A7:DSCT   073.D-0464   33249.367   600B   37±44   1.34   -136±40   1.16   nnn   HD39060   MS:A6:CSD   081.C-0410   54609.954   600B   -12±23   0.76   -85±25   0.87   nnn   HD39060   MS:A6:CSD   074.C-0463   53296.272   1200g   -148±58   1.27   98±66   1.29   nnn   CPD-64481   SD:B   072.D-090   53058.069   600B   87±214   1.03   -536±269   0.99   nnn   HD39084   MS:B6:SPB   079.D-0241   54344.411   600B   87±214   1.03   -536±269   0.99   nnn   HD39084   MS:B6:SPB   079.D-0241   54344.411   600B   -11±34   0.84   -28±42   0.77   nnd   WD0548-001   WD:DQP8   082.D-0376   54787.330   600B   34±30   0.86   41±29   0.78   nnn   HD250550   PM:B7:E   074.C-0442   5332.220   600B   34±30   0.86   41±29   0.78   nnn   HD250550   PM:B7:E   074.C-0442   5332.220   600B   186±122   1.14   -39±104   0.79   nnn   HD2505244   MS:B2   070.D-0352   52678.153   600B   24±40   2.05   172±47   2.44   nnn   HD41909   GS:G0   070.D-0352   52678.153   600B   24±40   2.05   172±47   2.44   nnn   HD41909   GS:G0   070.D-0352   52678.153   600B   29±41   1.09   071±2±111   0.85   DDD   HD252248   MS:B3   070.D-0352   52678.153   600B   29±44   1.07   07±2±111   0.85   DDD   HD252266   MS:B3   070.D-0352   52678.153   600B   -98±67   0.73   -69±67   0.67   nnn   HD47431   GS:B1:BCEP   075.D-0295   53629.343   1200B   41±77   1.16   -6±75   1.12   nnn   HD47434   GS:B1:BCEP   075.D-0295   53629.343   1200B   41±77   1.16   -6±75   1.12   nnn   HD47434   GS:B1:BCEP   075.D-0295   53629.343   1200B   -124±733   0.86   -1431±747   0.89   nn   HD45284   MS:B3:SPB.SB   078.D-0466   53223.67   600B   -124±733   0.86   -1431±747   0.89   nn   HD45284   MS:B3:SPB.SB   078.D-0466   53223.67   600B   -124±733   0.86   -144±21   0.76   nnn   HD44743   GS:B1:BCEP   075.D-0295   53629.343   1200B   -124±733   0.86   -1431±747   0.89   nn   HD45284   MS:B3:SPB.SB   078.D-0466   53223.67   600B   -124±733   0.86   -1431±747   0.89   nn   HD45284   MS:B3:SPB.SB   078.D-0466   53223.67   600B   -124±733   0.86   -1431±747   0.99   DDD   HD	NGC 2024 1						0.81	$1263 \pm 1094$	0.72	nnn
HB 39906   MS:A6:CSD	HD 38238	MS:A7:DSCT	073.D-0464	53249.367	600B		1.34	$-136 \pm 40$	1.16	nnn
HD 39960   MS:A6:CSD   074.C-0463   53296.272   1200g   -148.±58   1.27   98.±66   1.29   nnn   HD 39844   MS:B6:SPB   072.D-0290   53058.069   600B   87±214   1.03   -536±269   0.99   nnn   HD 39844   MS:B6:SPB   079.D-0241   54344.411   600B   -117±34   0.84   -28±42   0.77   nnd   WD 0548-001   WD:DQP8   082.D-0736   54787.330   600B   HD 40494   MS:B2:SPB   079.D-0241   54344.3427   600B   34±30   0.86   41±29   0.78   nnn   HD 250550   PM:B7:E   074.C-0442   53332.220   600B   186±122   1.14   -39±104   0.79   nnn   HD 250550   PM:B7:E   074.C-0442   53332.220   600B   186±122   1.14   -39±104   0.79   nnn   HD 271924   MS:A:RR   082.D-0342   54782.316   1200B   -105±44   1.07   77±45   1.15   nnn   HD 271924   MS:B2:E   070.D-0352   52678.153   600B   24±40   2.05   172±47   2.44   nnn   HD 41930   GS:G0   070.D-0352   52678.153   600B   24±40   2.05   172±47   2.44   nnn   HD 41909   GS:G0   070.D-0352   52678.153   600B   -2914±114   0.90   -172±111   0.85   DDD   HD 252248   MS:B3   070.D-0352   52678.153   600B   -98±67   0.73   -69±67   0.67   nnn   HD 252266   MS:B3   070.D-0352   52678.153   600B   -98±67   0.73   -69±67   0.67   nnn   HD 42659   MS:A:3M.AP   072.D-0377   52999.119   600B   382±48   1.17   -39±42   0.90   DDD   RX Col   MS:A:RR   082.D-0342   54781.308   1200B   41±77   1.16   -6±75   1.12   nnn   HD 44743   GS:B1:BCEP   075.D-0295   52692.749   600B   -128±2±754   0.93   980±755   0.93   n-n   HD 44743   GS:B1:BCEP   075.D-0295   53629.343   1200g   -32±20   0.74   -1±20   0.76   nnn   HD 45284   MS:B8:SPB.SB   073.D-0466   53252.367   600B   -1545±61   1.49   -41±47   0.91   DDD   HD 46328   GS:B1:M.BCEP   075.D-0295   53475.031   1200g   317±22   0.56   6±19   0.44   DDD   HD 46328   GS:B1:M.BCEP   075.D-0295   53475.031   1200g   317±22   0.56   6±19   0.44   DDD   HD 46328   GS:B1:M.BCEP   075.D-0295   53475.036   000B   423±61   1.49   -41±47   0.91   DDD   HD 46328   GS:B1:M.BCEP   075.D-0295   53475.036   000B   434±59   1.01   30±56   0.91   DDD   HD 46328   GS:B1:M.BCE	HD 38238	MS:A7:DSCT	075.D-0295	53629.377	1200g	$-2 \pm 30$	1.01	$20 \pm 29$	0.91	nnn
CPD-64 481   SD:B	HD 39060	MS:A6:CSD	081.C-0410	54609.954		$-12 \pm 23$	0.76	$-85 \pm 25$	0.87	nnn
HD 39844   MS:B6:SPB   079.D-0241   54344.411   600B   -117±34   0.84   -28±42   0.77   nnd   WD 0548-001   WD:DQP8   082.D-0736   54787.330   600B   34±30   0.86   41±29   0.78   nnn   HD 40494   MS:B2:SPB   079.D-0241   54343.427   600B   34±30   0.86   41±29   0.78   nnn   HD 250550   PM:B7:E   074.C-0442   53332.220   600B   186±122   1.14   -39±104   0.79   nnn   HD 41335   MS:B2:E   080.D-0382   54549.982   600B   -105±44   1.07   77±45   1.15   nnn   HD 271924   MS:A:RR   082.D-0342   54782.316   1200B   -105±44   1.07   77±45   1.15   nnn   HD 252214   MS:B2   070.D-0352   52678.153   600B   24±40   2.05   172±47   2.44   nnn   HD 41909   GS:G0   070.D-0352   52678.153   600B   24±40   2.05   172±47   2.44   nnn   HD 41909   GS:G0   070.D-0352   52678.153   600B   -2914±114   0.90   -172±111   0.85   DDD   HD 252248   MS:B3   070.D-0352   52678.153   600B   -98±67   0.73   -69±67   0.67   nnn   HD 42659   MS:A3:M.AP   072.D-0377   52999.119   600B   382±48   1.17   -39±42   0.90   DDD RX Col   MS:A:RR   082.D-0342   54781.308   1200B   41±77   1.16   -6±75   1.12   nnn   WD 0612±177   WD:DA2   070.D-0259   52602.274   600B   -128±754   0.93   980±755   0.93   n-n   HD 44743   GS:B1:BCEP   075.D-0295   53629.343   1200g   -32±20   0.74   -1±20   0.76   nnn   HD 44743   GS:B1:BCEP   075.D-0295   53629.343   1200g   -32±20   0.74   -1±20   0.76   nnn   HD 44743   GS:B1:BCEP   075.D-0295   53629.343   1200g   -32±20   0.74   -1±20   0.76   nnn   HD 45284   MS:B8:SPB.SB   073.D-0466   53259.399   600B   -46±57   0.85   -111±58   0.89   nnn   HD 45284   MS:B8:SPB.SB   073.D-0466   53259.399   600B   -7±68   0.99   -2±65   0.98   nnn   HD 45284   MS:B8:SPB.SB   073.D-0466   53259.399   600B   -7±68   0.99   -2±65   0.98   nnn   HD 45284   MS:B8:SPB.SB   073.D-0466   53259.399   600B   -7±68   0.99   -2±65   0.99   nnn   HD 46328   GS:B1:M.BCEP   075.D-0295   53506.971   1200g   317±22   0.56   6±19   0.44   0.0D   HD 46328   GS:B1:M.BCEP   075.D-0295   53506.971   1200g   317±22   0.56   6±19   0.44   0.0D										nnn
WD:DQP8										nnn
HD 40494   MS:B2:SPB   079.D-0241						$-117 \pm 34$	0.84	$-28 \pm 42$	0.77	nnd
HD 250550   PM:B7:E   074.C-0442   53332.220   600B   186±122   1.14   -39±104   0.79   nnn   HD 41335   MS:B2:E   080.D-0383   54549.982   600B   -194±113   0.96   111±103   0.79   nnn   HD 271924   MS:A:RR   082.D-0342   54782.316   1200B   -105±44   1.07   77±45   1.15   nnn   HD 252214   MS:B2   070.D-0352   52678.153   600B   24±40   2.05   172±47   2.44   nnn   HD 41909   GS:G0   070.D-0352   52678.153   600B   24±40   2.05   172±47   2.44   nnn   HD 41909   GS:G0   MS:A0.M.AP   070.D-0352   52678.153   600B   49±27   1.24   -14±21   0.72   nnn   MGC2169   12   MS:A0.M.AP   070.D-0352   52678.153   600B   -98±67   0.73   -69±67   0.67   nnn   HD 552246   MS:B3   070.D-0352   52678.153   600B   -98±67   0.73   -69±67   0.67   nnn   HD 252246   MS:B3   070.D-0352   52678.153   600B   -717±55   0.70   32±55   0.69   nnn   HD 45659   MS:A3.M.AP   072.D-0377   52999.119   600B   382±48   1.17   -39±42   0.90   DDD   RX Col   MS:A:RR   082.D-0342   54781.308   1200B   41±77   1.16   -6±75   1.12   nnn   WD 0612+177   WD:DA2   070.D-0259   52672.079   600B   -1282±754   0.93   980±755   0.93   n-n   HD 44743   GS:B1:BCEP   075.D-0295   53475.031   1200g   -96±66   1.24   -18±65   1.21   nnn   HD 44743   GS:B1:BCEP   075.D-0295   53475.031   1200g   -96±66   1.24   -18±65   1.21   nnn   HD 44743   GS:B1:BCEP   075.D-0295   53475.031   1200g   -32±20   0.74   -1±20   0.76   nnn   HD 45284   MS:B8:SPB.SB   073.D-0466   53252.367   600B   56±47   1.00   -9±56   0.93   nnn   HD 45284   MS:B8:SPB.SB   073.D-0466   53252.367   600B   -1545±61   1.49   -41±47   0.99   DDD   HD 46328   GS:B1:M.BCEP   075.D-0295   53475.046   1200g   317±22   0.56   6±19   0.44   DDD   HD 46328   GS:B1:M.BCEP   075.D-0295   53475.046   1200g   317±22   0.56   6±19   0.44   DDD   HD 46328   GS:B1:M.BCEP   075.D-0295   53475.046   1200g   317±22   0.56   6±19   0.44   DDD   HD 46328   GS:B1:M.BCEP   075.D-0295   53475.046   1200g   317±22   0.56   6±19   0.44   DDD   HD 46328   GS:B1:M.BCEP   078.D-0140   54116.109   600B   307±77   1.08						24 20	0.06	41 20	0.70	
HD 41335   MS:B2:E   080,D-0383   54549.982   600B   -194±113   0.96   111±103   0.79   nnn     HD 271924   MS:A:RR   082,D-0342   54782.316   1200B   -105±44   1.07   77±45   1.15   nnn     HD 41909   GS:G0   070,D-0352   52678.153   600B   24±40   2.05   172±47   2.44   nnn     HD 41909   GS:G0   070,D-0352   52678.153   600B   24±27   1.24   -14±21   0.72   nnn     HD 41909   MS:A0,M.AP   070,D-0352   52678.153   600B   -2914±114   0.90   -172±111   0.85   DDD     HD 252248   MS:B3   070,D-0352   52678.153   600B   -98±67   0.73   -69±67   0.67   nnn     HD 252266   MS:B3   070,D-0352   52678.153   600B   -17±55   0.70   32±55   0.69   nnn     HD 42659   MS:A3:M.AP   072,D-0377   52999.119   600B   382±48   1.17   -39±42   0.90   DDD     RX Col   MS:A:RR   082,D-0342   54781.308   1200B   41±77   1.16   -6±75   1.12   nnn     WD 0612+177   WD:DA2   070,D-0259   5269,274   600B   -1282±754   0.93   980±755   0.93   n-n     HD 44743   GS:B1:BCEP   075,D-0295   53475,031   1200g   -96±66   1.24   -18±65   1.21   nnn     HD 44743   GS:B1:BCEP   075,D-0295   53475,031   1200g   -32±20   0.74   -1±20   0.76   nnn     HD 44743   GS:B1:BCEP   075,D-0295   53450,343   1200g   -32±20   0.74   -1±20   0.76   nnn     HD 44743   GS:B1:BCEP   075,D-0295   53450,360   600B   158±75   0.88   97±75   0.87   nnn     HD 45284   MS:B8:SPB.SB   078,D-0140   54107.242   600B   -46±57   0.85   -111±58   0.89   nnn     HD 45284   MS:B8:SPB.SB   078,D-0140   54107.242   600B   -46±57   0.85   -111±58   0.89   nnn     HD 45284   MS:B8:BEB   073,D-0466   53252.367   600B   -21±68   0.99   -2±65   0.98   nnn     HD 46025   MS:B8:BEB   073,D-0466   53259.399   600B   -27±68   0.99   -2±65   0.98   nnn     HD 46328   GS:B1:M.BCEP   075,D-0295   53450.6971   1200g   325±34   1.09   -95±33   0.99   DDD     HD 46328   GS:B1:M.BCEP   075,D-0295   53450.6971   1200g   325±34   1.09   -95±33   0.99   DDD     HD 46328   GS:B1:M.BCEP   078,D-0140   54107.266   600B   432±61   1.18   60±60   1.01   DdD     HD 46328   GS:B1:M.BCEP   078,D-0140										
HD 271924   MS:A:RR   082.D-0342										
HD 252214   MS:B2										
HD 41909   GS:G0										
NGC 2169 12         MS:A0.M.AP         070.D-0352         52678.153         600B         -2914±114         0.90         -172±111         0.85         DDD           HD 252248         MS:B3         070.D-0352         52678.153         600B         -98±67         0.73         -69±67         0.67         nnn           HD 252266         MS:B3         070.D-0352         52678.153         600B         -17±55         0.70         32±55         0.69         nnn           HD 42659         MS:A3:M.AP         072.D-0377         52999.119         600B         382±48         1.17         -39±42         0.90         DDD           RX Col         MS:A:RR         082.D-0342         54781.308         1200B         41±77         1.16         -6±75         1.12         nnn           WD 0612+177         WD:DA2         070.D-0259         52609.274         600B         -42±733         0.86         -1431±747         0.89         n-n           HD 44743         GS:B1:BCEP         075.D-0295         53629.343         1200g         -96±66         1.24         -18±65         1.21         nnn           HD 44743         GS:B1:BCEP         075.D-0295         53629.343         1200g         -32±20         0.74         -1±20 </td <td></td>										
HD 252248   MS:B3										
HD 252266 MS:B3 070.D-0352 52678.153 600B -17 ± 55 0.70 32 ± 55 0.69 nnn HD 42659 MS:A3:M.AP 072.D-0377 52999.119 600B 382 ± 48 1.17 -39 ± 42 0.90 DDD RX Col MS:A:RR 082.D-0342 54781.308 1200B 41 ± 77 1.16 -6 ± 75 1.12 nnn WD 0612±177 WD:DA2 070.D-0259 52609.274 600B -1282 ± 754 0.93 980 ± 755 0.93 n-n WD 0612±177 WD:DA2 070.D-0259 52672.079 600B -424 ± 733 0.86 -1431 ± 747 0.89 n-n HD 44743 GS:B1:BCEP 075.D-0295 53475.031 1200g -96 ± 66 1.24 -18 ± 65 1.21 nnn HD 44743 GS:B1:BCEP 075.D-0295 53475.031 1200g -96 ± 66 1.24 -18 ± 65 1.21 nnn HD 44743 GS:B1:BCEP 075.D-0295 53475.031 1200g -32 ± 20 0.74 -1 ± 20 0.76 nnn HD 44743 GS:B1:BCEP 075.D-0295 53475.031 1200g -32 ± 20 0.74 -1 ± 20 0.76 nnn HD 44743 GS:B1:BCEP 075.D-0466 53252.367 600B 158 ± 75 0.88 97 ± 75 0.87 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54046.360 600B 158 ± 75 0.85 -111 ± 58 0.89 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54107.242 600B -46 ± 57 0.85 -111 ± 58 0.89 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54107.242 600B -46 ± 57 0.85 -111 ± 58 0.89 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54107.242 600B -1545 ± 61 1.49 -41 ± 47 0.91 DDD HD 46025 MS:B8:EB 073.D-0466 53259.399 600B -27 ± 68 0.99 -2 ± 65 0.98 nnn HD 46328 GS:B1:M.BCEP 075.D-0295 53475.046 1200g 317 ± 22 0.56 6 ± 19 0.44 DDD HD 46328 GS:B1:M.BCEP 075.D-0295 53475.046 1200g 317 ± 22 0.56 6 ± 19 0.44 DDD HD 46328 GS:B1:M.BCEP 075.D-0295 53475.046 1200g 325 ± 34 1.09 -95 ± 33 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54107.266 600B 423 ± 61 1.18 60 ± 60 1.01 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54107.266 600B 423 ± 61 1.18 60 ± 60 1.01 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54114.030 600B 457 ± 44 1.00 -77 ± 47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 457 ± 44 1.00 -72 ± 47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 457 ± 44 1.00 -72 ± 47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 457 ± 44 1.00 -72 ± 47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 457 ± 44 1.00 -72 ± 47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 457 ± 44 1.00 -72 ± 47 0										
RX Col MS:A:RR 082.D-0342 54781.308 1200B 41±77 1.16 -6±75 1.12 nnn WD 0612+177 WD:DA2 070.D-0259 52609.274 600B -1282±754 0.93 980±755 0.93 n-n WD 0612+177 WD:DA2 070.D-0259 52672.079 600B -424±733 0.86 -1431±747 0.89 n-n HD 44743 GS:B1:BCEP 075.D-0295 53475.031 1200g -96±66 1.24 -18±65 1.21 nnn HD 44743 GS:B1:BCEP 075.D-0295 53629.343 1200g -32±20 0.74 -1±20 0.76 nnn HD 44743 GS:B1:BCEP 078.D-0140 54046.360 600B 158±75 0.88 97±75 0.87 nnn HD 45284 MS:B8:SPB.SB 073.D-0466 53252.367 600B 56±47 1.00 -9±56 0.93 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54107.282 600B -46±57 0.85 -111±58 0.89 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54107.282 600B 114±108 0.84 -15±111 0.88 nnn HD 45583 MS:B9:M.AP 070.D-0352 52679.237 600B -1545±61 1.49 -41±47 0.91 DDD HD 46005 MS:B8:EB 073.D-0466 53259.399 600B -27±68 0.99 -2±65 0.98 nnn HD 46328 GS:B1:M.BCEP 075.D-0295 53475.046 1200g 317±22 0.56 6±19 0.44 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54061.325 600B 434±59 1.01 30±56 0.91 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54107.266 600B 434±59 1.01 30±56 0.91 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54107.266 600B 423±61 1.18 60±60 1.01 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54107.266 600B 423±61 1.18 60±60 1.01 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54107.326 600B 434±59 1.01 30±56 0.91 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54107.326 600B 434±59 1.01 30±56 0.91 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54107.366 600B 432±61 1.18 60±60 1.01 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54114.030 600B 437±44 1.00 -27±47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54114.178 600B 437±44 1.00 -27±47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 457±44 1.00 -27±47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 457±44 1.00 -27±47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 457±44 1.00 -27±47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 457±44 1.00 -27±47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 457±44 1.00 -27±47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 457±44 1.00 -27±47 0.99 DDD HD 46328 GS:B1:M.	HD 252266		070.D-0352			$-17 \pm 55$	0.70	$32 \pm 55$	0.69	nnn
WD 0612+177         WD:DA2         070.D-0259         52609.274         600B         -1282±754         0.93         980±755         0.93         n-n           WD 0612+177         WD:DA2         070.D-0259         52672.079         600B         -424±733         0.86         -1431±747         0.89         n-n           HD 44743         GS:B1:BCEP         075.D-0295         53475.031         1200g         -96±66         1.24         -18±65         1.21         nnn           HD 44743         GS:B1:BCEP         075.D-0295         53629.343         1200g         -32±20         0.74         -1±20         0.76         nnn           HD 44743         GS:B1:BCEP         075.D-0295         53629.343         1200g         -32±20         0.74         -1±20         0.76         nnn           HD 45284         MS:B8:SPB.SB         073.D-0466         53252.367         600B         56±47         1.00         -9±56         0.93         nnn           HD 45284         MS:B8:SPB.SB         078.D-0140         54107.242         600B         -46±57         0.85         -11±58         0.89         nnn           HD 45284         MS:B8:SPB.SB         078.D-0140         54107.282         600B         -154±561         1.49	HD 42659	MS:A3:M.AP	072.D-0377	52999.119	600B	$382 \pm 48$	1.17	$-39 \pm 42$	0.90	DDD
WD 0612+177         WD:DA2         070.D-0259         52672.079         600B         -424±733         0.86         -1431±747         0.89         n-n           HD 44743         GS:B1:BCEP         075.D-0295         53475.031         1200g         -96±66         1.24         -18±65         1.21         nnn           HD 44743         GS:B1:BCEP         075.D-0295         53629.343         1200g         -32±20         0.74         -1±20         0.76         nnn           HD 44743         GS:B1:BCEP         078.D-0140         54046.360         600B         158±75         0.88         97±75         0.87         nnn           HD 45284         MS:B8:SPB.SB         073.D-0466         53252.367         600B         56±47         1.00         -9±56         0.93         nnn           HD 45284         MS:B8:SPB.SB         078.D-0140         54107.242         600B         -46±57         0.85         -111±58         0.89         nnn           HD 45284         MS:B8:SPB.SB         078.D-0140         54107.282         600B         114±108         0.84         -15±111         0.88         nnn           HD 45284         MS:B8:SPB.SB         078.D-0140         54107.282         600B         114±108         0.84	RX Col	MS:A:RR	082.D-0342	54781.308	1200B	$41 \pm 77$	1.16	$-6 \pm 75$	1.12	nnn
HD 44743 GS:B1:BCEP 075.D-0295 53475.031 1200g -96±66 1.24 -18±65 1.21 nnn HD 44743 GS:B1:BCEP 075.D-0295 53629.343 1200g -32±20 0.74 -1±20 0.76 nnn HD 44743 GS:B1:BCEP 078.D-0140 54046.360 600B 158±75 0.88 97±75 0.87 nnn HD 45284 MS:B8:SPB.SB 073.D-0466 53252.367 600B 56±47 1.00 -9±56 0.93 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54107.242 600B -46±57 0.85 -111±58 0.89 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54107.242 600B -46±57 0.85 -111±58 0.89 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54107.282 600B 114±108 0.84 -15±111 0.88 nnn HD 45583 MS:B9:M.AP 070.D-0352 52679.237 600B -1545±61 1.49 -41±47 0.91 DDD HD 46005 MS:B8:EB 073.D-0466 53259.399 600B -27±68 0.99 -2±65 0.98 nnn HD 46328 GS:B1:M.BCEP 075.D-0295 53475.046 1200g 317±22 0.56 6±19 0.44 DDD HD 46328 GS:B1:M.BCEP 075.D-0295 53506.971 1200g 325±34 1.09 -95±33 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54107.266 600B 423±61 1.18 60±60 1.01 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54107.266 600B 423±61 1.18 60±60 1.01 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54107.266 600B 423±61 1.18 60±60 1.01 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54107.266 600B 423±61 1.18 60±60 1.01 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54114.030 600B 307±57 1.08 -150±62 1.04 ndD HD 46328 GS:B1:M.BCEP 078.D-0140 54114.030 600B 457±44 1.00 -27±47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54114.178 600B 457±44 1.00 -27±47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 169±63 1.08 189±56 0.92 ndn HD 46328 GS:B1:M.BCEP 078.D-0140 54155.083 600B 299±33 1.03 -9±33 0.87 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54155.083 600B 299±33 1.03 -9±33 0.87 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54155.083 600B 299±33 1.03 -9±33 0.87 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54155.083 600B 299±33 1.03 -9±33 0.87 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54155.083 600B 299±33 1.03 -9±33 0.87 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54155.083 600B 299±33 1.03 -9±33 0.87 DDD HD 46328 GS:B1:M.BCEP 079.D-0241 54343.372 1200B 378±16 1.33 -38±17 0.99 DDD HD 46328 GS:B1:M.BCEP 079.D-0241 54345.376 1200B 414±13 1.54 -6±11 0.95 DDD										n-n
HD 44743 GS:B1:BCEP 075.D-0295 53629.343 1200g -32 ± 20 0.74 -1 ± 20 0.76 nnn HD 44743 GS:B1:BCEP 078.D-0140 54046.360 600B 158 ± 75 0.88 97 ± 75 0.87 nnn HD 45284 MS:B8:SPB.SB 073.D-0466 53252.367 600B 56 ± 47 1.00 -9 ± 56 0.93 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54107.242 600B -46 ± 57 0.85 -111 ± 58 0.89 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54107.242 600B 114 ± 108 0.84 -15 ± 111 0.88 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54107.242 600B 114 ± 108 0.84 -15 ± 111 0.88 nnn HD 45583 MS:B9:M.AP 070.D-0352 52679.237 600B -1545 ± 61 1.49 -41 ± 47 0.91 DDD HD 46005 MS:B8:EB 073.D-0466 53259.399 600B -27 ± 68 0.99 -2 ± 65 0.98 nnn HD 46328 GS:B1:M.BCEP 075.D-0295 53475.046 1200g 317 ± 22 0.56 6 ± 19 0.44 DDD HD 46328 GS:B1:M.BCEP 075.D-0295 53506.971 1200g 325 ± 34 1.09 -95 ± 33 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54061.325 600B 434 ± 59 1.01 30 ± 56 0.91 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54061.325 600B 423 ± 61 1.18 60 ± 60 1.01 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54107.266 600B 423 ± 61 1.18 60 ± 60 1.01 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54114.178 600B 457 ± 44 1.00 -27 ± 47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54114.178 600B 457 ± 44 1.00 -27 ± 47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 169 ± 63 1.08 189 ± 56 0.92 ndn HD 46328 GS:B1:M.BCEP 078.D-0140 54115.083 600B 299 ± 33 1.03 -9 ± 33 0.87 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54155.083 600B 299 ± 33 1.03 -9 ± 33 0.87 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54155.083 600B 299 ± 33 1.03 -9 ± 33 0.87 DDD HD 46328 GS:B1:M.BCEP 079.D-0241 54343.372 1200B 378 ± 16 1.33 -38 ± 17 0.99 DDD HD 46328 GS:B1:M.BCEP 079.D-0241 54343.372 1200B 378 ± 16 1.33 -38 ± 17 0.99 DDD HD 46328 GS:B1:M.BCEP 079.D-0241 54345.376 1200B 414 ± 13 1.54 -6 ± 11 0.95 DDD										n-n
HD 44743 GS:B1:BCEP 078.D-0140 54046.360 600B 158 ± 75 0.88 97 ± 75 0.87 nnn HD 45284 MS:B8:SPB.SB 073.D-0466 53252.367 600B 56 ± 47 1.00 -9 ± 56 0.93 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54107.242 600B -46 ± 57 0.85 -111 ± 58 0.89 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54107.282 600B 114 ± 108 0.84 -15 ± 111 0.88 nnn HD 45284 MS:B8:SPB.SB 078.D-0140 54107.282 600B 114 ± 108 0.84 -15 ± 111 0.88 nnn HD 45583 MS:B9:M.AP 070.D-0352 52679.237 600B -1545 ± 61 1.49 -41 ± 47 0.91 DDD HD 46005 MS:B8:EB 073.D-0466 53259.399 600B -27 ± 68 0.99 -2 ± 65 0.98 nnn HD 46328 GS:B1:M.BCEP 075.D-0295 53475.046 1200g 317 ± 22 0.56 6 ± 19 0.44 DDD HD 46328 GS:B1:M.BCEP 075.D-0295 53506.971 1200g 325 ± 34 1.09 -95 ± 33 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54061.325 600B 423 ± 61 1.18 60 ± 60 1.01 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54107.266 600B 423 ± 61 1.18 60 ± 60 1.01 DdD HD 46328 GS:B1:M.BCEP 078.D-0140 54114.030 600B 307 ± 57 1.08 -150 ± 62 1.04 ndD HD 46328 GS:B1:M.BCEP 078.D-0140 54114.178 600B 457 ± 44 1.00 -27 ± 47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54114.178 600B 457 ± 44 1.00 -27 ± 47 0.99 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 169 ± 63 1.08 189 ± 56 0.92 ndn HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 169 ± 63 1.08 189 ± 56 0.92 ndn HD 46328 GS:B1:M.BCEP 078.D-0140 54116.109 600B 299 ± 33 1.03 -9 ± 33 0.87 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54155.083 600B 299 ± 33 1.03 -9 ± 33 0.87 DDD HD 46328 GS:B1:M.BCEP 078.D-0140 54155.083 600B 299 ± 33 1.03 -9 ± 33 0.87 DDD HD 46328 GS:B1:M.BCEP 079.D-0241 54343.372 1200B 378 ± 16 1.33 -38 ± 17 0.99 DDD HD 46328 GS:B1:M.BCEP 079.D-0241 54343.372 1200B 378 ± 16 1.33 -38 ± 17 0.99 DDD HD 46328 GS:B1:M.BCEP 079.D-0241 54345.376 1200B 414 ± 13 1.54 -6 ± 11 0.95 DDD					_					
HD 45284         MS:B8:SPB.SB         073.D-0466         53252.367         600B         56±47         1.00         -9±56         0.93         nnn           HD 45284         MS:B8:SPB.SB         078.D-0140         54107.242         600B         -46±57         0.85         -111±58         0.89         nnn           HD 45284         MS:B8:SPB.SB         078.D-0140         54107.282         600B         114±108         0.84         -15±111         0.88         nnn           HD 45283         MS:B9:M.AP         070.D-0352         52679.237         600B         -1545±61         1.49         -41±47         0.91         DDD           HD 46005         MS:B8:EB         073.D-0466         53259.399         600B         -27±68         0.99         -2±65         0.98         nnn           HD 46328         GS:B1:M.BCEP         075.D-0295         53475.046         1200g         317±22         0.56         6±19         0.44         DDD           HD 46328         GS:B1:M.BCEP         075.D-0295         53506.971         1200g         325±34         1.09         -95±33         0.99         DDD           HD 46328         GS:B1:M.BCEP         078.D-0140         54107.266         600B         434±59         1.01										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		GS:B1:M.BCEP	078.D-0140	54114.178	600B		1.00			DDD
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	HD 46328	GS:B1:M.BCEP	078.D-0140	54116.109						
HD 46328 GS:B1:M.BCEP 079.D-0241 54345.376 1200B $414 \pm 13$ 1.54 $-6 \pm 11$ 0.95 DDD										
HD 46328 GS:B1:M.BCEP 080.D-0383 54548.976 600B 278±50 0.75 nDD								$-6 \pm 11$	0.95	
	HD 40328	G2:R1:W'RCEL	080.D-0383	54548.976	000B	$2/8 \pm 50$	0.75			

Table 5. continued.

Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
HD 46328	GS:B1:M.BCEP	080.D-0383	54549.995	600B	$472 \pm 43$	0.77	$-61 \pm 51$	0.73	DDD
NGC 2244 330	??:K7	070.D-0352	52679.162	600B	$54 \pm 22$	1.28	$-91 \pm 19$	0.97	-nn
NGC 2244 331	MS:B7	070.D-0352	52679.162	600B	$-2024 \pm 402$	1.22	$-1161 \pm 387$	1.02	DnD
NGC 2244 336	MS:A5	070.D-0352	52679.162	600B	$113 \pm 86$	1.14	$-127 \pm 86$	1.16	nnn
NGC 2244 334	MS:B5:M.AP	070.D-0352	52679.162	600B	$-7431 \pm 154$	1.72	$159 \pm 123$	1.20	DDD
NGC 2244 365	??:G5	070.D-0352	52679.162	600B	$-22 \pm 56$	1.07	$-201 \pm 52$	0.93	nnn
NGC 2244 364	??:K5	070.D-0352	52679.162	600B	$119 \pm 39$	0.89	$-1 \pm 37$	0.78	-dd
HD 259431	PM:B6:P.E	074.C-0442	53332.238	600B	$-294 \pm 247$	1.12	$-3 \pm 215$	0.85	nnn
WD 0631+107	WD:DA2	070.D-0259	52700.130	600B	$-1838 \pm 1092$	1.10	$1885 \pm 1172$	1.29	n-n
WD 0631+107	WD:DA2	070.D-0259	52702.125	600B	$1267 \pm 1108$	1.19	$323 \pm 1069$	1.10	n-n
R Mon	MS:B0:V	074.C-0442	53332.257	600B	26 70		<b>24 2</b> 0		_
HD 47839	PM:O7:E	081.C-0410	54609.967	600B	$-36 \pm 58$	0.87	$-31 \pm 58$	0.87	nnn
HD 289002	SD:B3	072.D-0119	52940.376	300V	$3285 \pm 2579$	0.80	24 . 65	0.04	nnn
HD 49023 CPD-20 1637	MS:B9:AP MS:A1	074.D-0488 073.D-0498	53400.098 53276.352	600B 600B	$27 \pm 70$ $54 \pm 58$	1.00 0.70	$24 \pm 65$ $16 \pm 61$	0.84 0.77	nnn
CPD=20 1037 CPD=20 1637	MS:A1	074.D-0488	53400.119	600B	$-89 \pm 192$	0.70	$-152 \pm 190$	0.77	nnn
CPD=20 1037 CPD=20 1640	MS:A5:AP	074.D-0488	53400.119	600B	$-89 \pm 192$ $110 \pm 58$	0.70	$-132 \pm 190$ $91 \pm 60$	0.08	nnn nnn
BD-20 1571	MS:A3.A1 MS:A3	073.D-0498	53276.352	600B	$-81 \pm 68$	0.79	$55 \pm 68$	0.70	nnn
BD-20 1571 BD-20 1571	MS:A3	074.D-0488	53400.119	600B	$-31 \pm 03$ $200 \pm 74$	0.79	$-57 \pm 73$	0.79	nnn
06:46:52 -20:57:06	??:F	074.D-0488	53400.150	600B	$-91 \pm 90$	0.66	$-217 \pm 96$	0.75	nnn
NGC 2287 AR157	MS:A6:AM	074.D-0488	53400.150	600B	$-139 \pm 94$	0.66	$-104 \pm 102$	0.77	nnn
CPD-20 1645	MS:A2	074.D-0488	53400.150	600B	$-37 \pm 67$	0.76	$53 \pm 66$	0.73	nnn
HD 49299	MS:A0:M.AP	073.D-0498	53276.352	600B	$-543 \pm 38$	0.85	$99 \pm 36$	0.75	DDD
HD 49299	MS:A0:M.AP	074.D-0488	53400.119	600B	$-2728 \pm 58$	1.55	$145 \pm 40$	0.74	DDD
HD 49606	GS:B8:HEW	072.D-0377	52946.354	600B	$-8 \pm 79$	0.84	$49 \pm 82$	0.92	nnn
HD 49606	GS:B8:HEW	380.D-0480	54432.192	1200B	$145 \pm 31$	1.15	$61 \pm 36$	0.94	dnd
HD 50707	SG:B1:BCEP	078.D-0140	54107.319	600B	$44 \pm 70$	0.91	$4 \pm 68$	0.89	nnn
HD 50707	SG:B1:BCEP	079.D-0241	54345.372	600B	$54 \pm 27$	0.86	$2 \pm 26$	0.77	nnn
HD 51088	MS:B8:AP	073.D-0498	53269.384	600B	$-143 \pm 51$	0.86	$58 \pm 50$	0.86	nnn
HD 51088	MS:B8:AP	074.D-0488	53400.224	600B	$108 \pm 64$	0.89	$-22 \pm 64$	0.90	nnn
HD 52089	SG:B2	079.D-0241	54343.388	600B	$-195 \pm 37$	0.86	$90 \pm 35$	0.79	dnD
HD 52089	SG:B2	078.D-0140	54046.339	600B	$-112 \pm 60$	0.97	$93 \pm 61$	1.02	nnn
HD 52721	PM:B2:E	074.C-0442	53331.296	600B	$202 \pm 157$	1.04	$-156 \pm 144$	0.87	nnn
HD 52965	MS:B8	074.D-0488	53400.211	600B	$-74 \pm 69$	0.66	$-87 \pm 70$	0.68	nnn
HD 52980	GS:B9	074.D-0488	53400.211	600B	$-149 \pm 47$	0.74	$68 \pm 46$	0.70	nnd
BD-08 1708	MS:B6	074.D-0488	53400.211	600B	$-42 \pm 110$	0.68	$180 \pm 110$	0.67	nnn DD
HD 53921 HD 53921	MS:B9:M.SPB.SB MS:B9:M.SPB.SB	075.D-0295 075.D-0295	53630.401 53631.408	1200g	$144 \pm 25$ $170 \pm 20$	0.80 0.95	$7 \pm 25$ $-9 \pm 19$	$0.80 \\ 0.87$	DnD
HD 53921	MS:B9:M.SPB.SB	073.D-0293 078.D-0140	54061.304	1200g 600B	$-16 \pm 133$	0.93	$-9 \pm 19$ $-86 \pm 137$	0.87	DDD nnn
HD 53921A	MS:B9:M.SPB.SB	072.D-0377	52999.137	600B	$-10 \pm 133$ $511 \pm 83$	0.85	$-80 \pm 137$ $-77 \pm 80$	0.33	DdD
HD 53921R HD 53921B	MS:B8:SB	072.D-0377	52999.137	600B	$257 \pm 133$	0.81	$-326 \pm 133$	0.79	nnn
HD 53921B HD 53179	PM:B:P.E	081.C-0410	54608.975	600B	$-250 \pm 42$	1.01	$-320 \pm 133$ $29 \pm 48$	0.83	DdD
HD 53179	PM:B:P.E	282.C-5041	54826.242	600B	230 ± 12	1.01	2) ± 10	0.75	_
HD 53179	PM:B:P.E	282.C-5041	54826.307	1200B					
HD 53179	PM:B:PE	074.C-0442	53331.312	600B	$-308 \pm 171$	0.98	$116 \pm 180$	1.06	n-n
HD 53244	GS:B8	072.D-0377	52999.155	600B	$15 \pm 60$	0.89	$174 \pm 71$	1.10	nnn
HD 53367	PM:B0:E	075.D-0507	53475.064	1200g	$38 \pm 252$	1.26	$-83 \pm 242$	1.17	nnn
HD 53367	PM:B0:E	075.D-0507	53503.002	1200g	$27 \pm 50$	1.11	$-77 \pm 59$	1.11	nnn
HD 53367A	PM:B0:E	074.C-0442	53330.338	600B	$72 \pm 81$	0.84	$101 \pm 83$	0.89	nnn
HD 53367B	PM:B0:E	074.C-0442	53330.351	600B	$-103 \pm 91$	0.96	$-231 \pm 84$	0.82	nnn
HD 53929	GS:B9	072.D-0377	52992.306	600B	$58 \pm 212$	1.07	$-242 \pm 215$	1.10	nnn
HD 53929	GS:B9	072.D-0377	53004.210	600B	$36 \pm 83$	0.85	$102 \pm 86$	0.93	nnn
TYC5385-927-1	??:F	068.D-0403	52310.057	600R	$14 \pm 245$	1.25	$101 \pm 250$	1.29	nnn
NGC 2343 13	MS:B3	068.D-0403	52310.057	600R	$-49 \pm 101$	0.86	$-47 \pm 98$	0.83	nnn
07:07:23 –10:31:45	UNCLASSIFIED	068.D-0403	52310.057	600R	$259 \pm 115$	0.97	$-55 \pm 120$	1.08	nnn
BD-10 1875	??:A	068.D-0403	52310.057	600R	$-194 \pm 149$	0.85	$181 \pm 140$	0.74	nnn
NGC 2343 22 NGC 2343 40	MS:A0 MS:F1	068.D-0403 068.D-0403	52310.057 52310.125	600R 600R	$55 \pm 148$ -18 \pm 162	0.91 0.91	$-208 \pm 142$ $230 \pm 160$	0.81 0.89	nnn
						1.02			nnn
NGC 2343 35 BD-10 1878	MS:A6 MS:B8	068.D-0403 068.D-0403	52310.057 52310.125	600R 600R	$262 \pm 185$ $139 \pm 98$	0.81	$-617 \pm 178$ $107 \pm 95$	0.93 0.78	nnn
07:07:47 -10:37:54	UNCLASSIFIED	068.D-0403	52310.125	600R	137 ± 70	0.01	10/ ± 33	0.70	nnn —
NGC 2343 25	MS:A3	068.D-0403	52310.125	600R	$341 \pm 152$	0.75	$-131 \pm 158$	0.82	nnn
NGC 2343 16	??:A8	068.D-0403	52310.125	600R	$-233 \pm 129$	0.73	$-131 \pm 136$ $96 \pm 121$	0.84	nnn
BD-10 1879a	MS:A3	068.D-0403	52309.160	600R	$-87 \pm 124$	0.72	$334 \pm 129$	0.78	nnn
07:07:55 -10:36:11	UNCLASSIFIED	068.D-0403	52310.125	600R	$38 \pm 220$	1.00	$577 \pm 214$	0.94	nnn
NGC 2343 34	MS:A6	068.D-0403	52309.067	600R	$60 \pm 170$	0.88	$126 \pm 171$	0.89	nnn
NGC 2343 43	MS:F	068.D-0403	52309.210	600R	$117 \pm 212$	0.98	$7 \pm 210$	0.98	nnn

Table 5. continued.

NGC   2343   23   MS   A5	Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
Note   California   Note   N										
HD 54304   MS B55										
						$-72\pm02$	0.80	37 ± 30	0.03	
NGC   1343   27						101 + 275	1.25	-274 + 254	1.06	
ORC   Company										
Sociation   Soci						100 ± 175	0.03	00 ± 173	0.50	
OFFICE   O						$-58 \pm 76$	0.80	$-18 \pm 73$	0.73	nnn
NGC 2243 36										_
NGC 2343 10						$73 \pm 147$	0.95	$-194 \pm 139$	0.86	nnn
NGC 2343 6	NGC 2343 36	MS:A7	068.D-0403	52309.067		$-21 \pm 170$	1.00		0.95	nnn
NGC 2243 6   MS:28   OSB D-0403   52309,123   OSOR   -169 ±18   OSB   -163 ±19   OSB   O			068.D-0403	52309.123			0.85		0.71	nnn
TYCS385-2097-1         MS:A9         068.D-0403         52309.067         600R         -169±318         0.83         -133±310         0.79         nan           NGC 2243 18         MS:A4         068.D-0403         52309.067         600R         -15±86         0.87         -12±2 + 79         0.73         nan           NGC 2343 31         MS:A6         068.D-0403         52309.021         600R         -10±194         0.97         -17±194         0.96         nan           V931 Mon         MS:B9         068.D-0403         52309.123         600R         -29±147         0.89         28±±151         0.94         nnn           NGC 2243 38         MS:A7         068.D-0403         52309.027         600R         -27±80         1.51         94±61         0.86         nnn           HD 54380         MS:A9         068.D-0403         52309.027         600R         -27±80         1.51         94±61         0.86         nnn           HD 54387         CS         068.D-0403         52309.027         600R         -300R         -42±154         1.64         -42±19         0.72         nnn           NGC 2343 30         MS:B         068.D-0403         52309.126         600R         -600R         -600R	NGC 2343 17	MS:A2	068.D-0403	52309.067			0.93	$295 \pm 116$	0.78	nnn
BD-10 1883   MS:49										nnn
NGC 2343 31 MS:A6 068.D-0403 52309.067 600R 124±105 0.92 -151±99 0.81 nnn NGC 2343 31 MS:A6 068.D-0403 52309.121 600R 1-03±194 0.92 172±194 0.96 nnn NGS 343 MS:A7 068.D-0403 52309.123 600R 29±147 0.89 284±151 0.94 nnn NGC 2343 38 MS:A7 068.D-0403 52309.027 600R -27±80 1.51 94±61 0.86 nnn NGC 2343 19 GS:K 068.D-0403 52309.027 600R -27±80 1.51 94±61 0.86 nnn NGC 2343 19 GS:K 068.D-0403 52309.027 600R -13±154 1.16 -108±119 0.87 nnn NGC 2343 19 GS:K 068.D-0403 52309.027 600R 148±99 1.02 -71±91 0.86 nnn NGC 2343 19 GS:K 068.D-0403 52309.027 600R 1.48±99 1.02 -71±91 0.86 nnn NGC 2343 87 27:GS 068.D-0403 52309.027 600R 1.03±184 1.18 -33±33 0.92 nnn NGC 2343 88 27:A3 068.D-0403 52309.027 600R 1.03±88 1.18 -33±33 0.92 nnn NGC 2343 30 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -293±229 0.83 nnn 07:09:18 -32:04:230 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -293±229 0.83 nnn 07:09:18 -32:04:30 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -293±229 0.83 nnn 07:09:18 -32:04:30 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -293±229 0.83 nnn 07:09:18 -32:04:30 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -293±229 0.83 nnn 07:09:18 -32:04:30 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -293±229 0.83 nnn 07:09:18 -32:04:30 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -293±229 0.83 nnn 07:09:18 -32:04:30 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -293±229 0.83 nnn 07:09:18 -32:04:04 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -293±229 0.83 nnn 07:09:18 -32:04:04 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -293±229 0.83 nnn 07:09:18 -32:04:04 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -293±229 0.83 nnn 07:09:18 -32:04:04 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -293±229 0.83 nnn 07:09:18 -32:04:04 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -10±279 0.82 nnn 07:09:18 -32:04:04 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -10±279 0.82 nnn 07:04:04 MS:A 068.D-0403 52309.123 600R 201±241 0.92 -10±279 0.82 nnn 07:04:04 MS:A 068.D-0403 MS:A 0										nnn
NGC 2343 30 MS:A6 (086.D-403) \$2309.123 (000R										nnn
W31 Mon   MS-B9   068.D-403   \$2309.123   600R   29±147   0.89   284±151   0.94   nnn										
NGC 2343 8 MS:A0 068.D-0403 52309.123 600R -2-4±193 0.82 128±198 0.87 nnn NGC 2343 19 GS:K 068.D-0403 52309.067 600R -1-37±154 1.16 -108±119 0.86 nnn NGC 2343 19 GS:K 068.D-0403 52309.067 600R -1-37±154 1.16 -108±119 0.86 nnn PM:B0 068.D-0403 52309.123 600R 10.3±195 0.86 nnn PM:B0 10.858 1										
HD 54360   MS.A0   068.D-0403   52309.067   600R   -27±80   1.51   04±61   0.86   nnn										
NGC 2243   9										
BD-10 1885B   MS:B9										
D7.08:16 - 10:33:50   UNCLASSIFIED   O68.D-0403   52309.123   600R										
HD54387						148 ± 99	1.02	-/1±91	0.80	111111
HD 543488   72:A3						103 ± 38	1 12	_33 ± 33	0.02	nnn
NGC 2343 30 MS:A 068 D-0403 \$2309.123 600R 201 ± 241 0.92 -293 ± 229 0.83 nnn 07:09:18 -3204.33 600R										
D7:09:18 - 32:04:30										
HD 55522   MS:B2:MAP   072.D-0377   52999.223   600B   148±83   0.92   -19±79   0.82   nnn   HD 55522   MS:B2:MAP   073.D-0466   53275.295   600B   806±47   1.07   33±44   0.96   DDD   HD 55718   MS:B3:SPB   079.D-0241   54343.401   600B   -6±48   0.78   31±59   0.78   nnn   HD 56305   MS:B3:MAP   072.D-0377   52999.239   600B   888±75   0.96   -8±69   0.80   DDD   HD 55958   MS:B2:BCEP   079.D-0241   54343.401   600B   -76±39   0.74   -67±51   0.82   nnn   HD 56014   GS:B3:E   075.D-0507   53511.976   1200g   -9±44   0.96   41±43   0.91   nnn   HD 56014   GS:B3:E   380.D-0480   54433.134   1200B   9±26   1.26   -4±21   0.83   nnn   HD 56014   GS:B3:E   380.D-0480   54433.134   1200B   9±26   1.26   -4±21   0.83   nnn   HD 56014   GS:B3:E   380.D-0480   54433.134   1200B   9±26   1.26   -4±21   0.83   nnn   HD 56014   GS:B3:E   375.D-0507   535103.049   1200g   46±54   1.10   19±51   0.96   nnn   HD 56014   GS:B3:E   375.D-0507   53503.049   1200g   46±54   1.10   19±51   0.96   nnn   HD 5613   MS:B2:E   075.D-0507   53503.049   1200g   46±54   1.10   19±51   0.96   nnn   HD 56343   MS:B9:M.AP   073.D-0498   53269.356   600B   -3731±78   1.34   83±65   0.91   DDD   NX Pup   PM:AO   074.C-0442   53331.275   600B   -178±53   1.02   138±52   0.99   dnd   HD 58011   SG:B1:E.P   075.D-0507   53503.031   1200g   -6±70   1.04   119±68   0.98   nnn   HD 58050   MS:B2:E   075.D-0507   53603.041   1200g   -16±51   0.93   -66±51   0.91   nnn   HD 58050   MS:B2:E   075.D-0507   53603.041   1200g   -16±51   0.93   -66±51   0.91   nnn   HD 58050   MS:B2:E   075.D-0507   53503.031   1200g   -6±70   1.04   119±68   0.98   nnn   HD 58050   MS:B2:E   075.D-0507   53600.000   -14±82   0.95						201 2 2 11	0.72	2/3 ± 22/	0.05	
HD 55522 MS:B2:MAP 073.D-0465 53275.295 600B 806±47 1.07 33±44 0.96 DDD HD 55718 MS:B3:MAP 073.D-0465 53275.295 600B 806±47 1.07 33±44 0.96 DDD HD 55718 MS:B3:SPB 079.D-0241 54343.401 600B -6±48 0.78 31±59 0.78 nnn HD 56350 MS:B:MAP 072.D-0377 52999.239 600B 888±75 0.96 -8±69 0.80 DDD HD 55958 MS:B2:BCEP 079.D-0241 54343.414 600B -76±39 0.74 -67±51 0.82 nnn HD 56014 GS:B3:E 075.D-0507 53511.976 1200g -91±44 0.96 41±43 0.91 nnn HD 56014 GS:B3:E 080.D-0383 54549.071 600B -48±52 0.82 -104±62 0.77 nnn HD 56014 GS:B3:E 380.D-0480 54432.163 1200B 54±26 0.78 -33±24 0.65 nnn HD 56014 GS:B3:E 380.D-0480 54432.163 1200B 54±26 0.78 -33±24 0.65 nnn HD 56014 GS:B3:E 380.D-0480 54433.134 1200B 9±26 1.26 -41±21 0.83 nnn HD 56139 MS:B2:E 075.D-0507 53503.049 1200g 46±54 1.10 19±51 0.96 nnn HD 56139 MS:B2:E 075.D-0507 53503.049 1200g 46±54 1.10 19±51 0.96 nnn HD 56343 MS:B9:MAP 072.D-0377 52999.251 600B -3731±78 1.34 83±65 0.91 DDD NX Pup PM:A0 074.C-0442 53331.275 600B -178±53 1.02 138±52 0.99 dnd HD 5841 SG:B1:E.P 075.D-0507 53503.031 1200g -46±0 0.83 34±89 0.84 nnn HD 58011 SG:B1:E.P 075.D-0507 53503.031 1200g -46±0 0.69 203±148 0.86 nnn HD 58011 SG:B1:E.P 080.D-0383 54549.082 600B -145±106 0.69 203±148 0.86 nnn HD 58011 SG:B1:E.P 080.D-0383 54549.082 600B -145±106 0.69 203±148 0.86 nnn HD 58050 MS:B2:E 075.D-0507 53503.031 1200g -6±70 1.04 119±68 0.98 nnn HD 58015 MS:B2:E 075.D-0507 53603.031 1200g -16±51 0.93 -66±51 0.91 nnn HD 58015 MS:B2:E 075.D-0507 53603.031 1200g -16±51 0.93 -66±51 0.91 nnn HD 58015 MS:B2:E 075.D-0507 53603.031 1200g -16±51 0.93 -66±51 0.91 nnn HD 58050 MS:B2:E 075.D-0507 53603.031 1200g -16±51 0.93 -66±51 0.91 nnn HD 58050 MS:B2:E 075.D-0507 53603.031 1200g -16±51 0.93 -66±51 0.91 nnn HD 58050 MS:B2:E 075.D-0507 53603.031 1200g -16±01 0.08 63±60 0.86 0.86 0.86 0.80 0.93 0.86 0.86 0.80 0.93 0.86 0.80 0.93 0.86 0.80 0.93 0.86 0.80 0.93 0.80 0.93 0.80 0.93 0.80 0.93 0.80 0.93 0.80 0.93 0.80 0.93 0.80 0.93 0.80 0.93 0.80 0.93 0.80 0.93 0.80 0.93 0.80 0.93 0.93 0.80 0.80 0.93 0.93 0.80 0.80 0.93 0.93 0.93						$148 \pm 83$	0.92	$-19 \pm 79$	0.82	nnn
HD 55522   MS:B2:MAP   073.D-0466   53275.295   600B   806 + 47   1.07   33 ± 44   0.96   DDD										
HD 56350   MS:B:M.AP   072.D-0377   52999.239   600B   888±75   0.96	HD 55522	MS:B2:M.AP	073.D-0466	53275.295						DDD
HD 55958   MS:B2:BCEP   079.D-0241   54343.414   600B   -76±39   0.74   -67±51   0.82   nnn   HD 56014   GS:B3:E   080.D-0383   54549.071   600B   -48±52   0.82   -104±62   0.77   nnn   HD 56014   GS:B3:E   380.D-0480   54432.163   1200B   54±26   0.78   -33±24   0.65   nnn   HD 56014   GS:B3:E   380.D-0480   54433.134   1200B   54±26   0.78   -33±24   0.65   nnn   HD 56014   GS:B3:E   380.D-0480   54433.134   1200B   54±26   0.78   -33±24   0.65   nnn   HD 5619   MS:B2:E   075.D-0507   55503.049   1200g   46±54   1.10   19±51   0.96   nnn   HD 56139   MS:B2:E   075.D-0507   55503.049   1200g   46±54   1.10   19±51   0.96   nnn   HD 56133   MS:B9:M.AP   073.D-0498   53269.356   600B   -313±78   1.34   83±65   0.91   DDD   NX Pup   PM:A0   074.C-0442   53331.275   600B   -178±53   1.02   138±52   0.99   dnd   HD 58448   MS:B8:AP   072.D-0377   52999.265   600B   44±89   0.83   34±89   0.84   nnn   HD 58011   SG:B1:E.P   075.D-0507   53503.031   1200g   -6±70   1.04   119±68   0.98   nnn   HD 58011   SG:B1:E.P   080.D-0383   54549.082   600B   -145±106   0.69   203±148   0.86   nnn   HD 58978   GS:B1   080.D-0383   54549.060   600B   -38±52   0.88   63±61   0.88   nnn   HD 58715   MS:B8:E   080.D-0383   54549.060   600B   -38±52   0.88   63±61   0.88   nnn   HD 60855   MS:B2   080.D-0383   54549.060   600B   -38±52   0.88   63±61   0.88   nnn   HD 60855   MS:B2   080.D-0383   54549.060   600B   -38±52   0.89   dDD   HD 60940   MS:B8   074.D-0488   53399.241   600B   -42±54   0.65   -97±58   0.73   nnn   HD 60966   MS:B9   074.D-0488   53399.241   600B   -55±22   0.77   -20±21   0.70   -nn   CD-314800   SD:O   072.D-0352   52678.186   600B   -75±29   0.93   37±151   0.87   nnn   HD 61045   MS:B8   074.D-0488   53399.241   600B   -75±29   0.93   37±151   0.87   nnn   HD 61045   MS:B8   074.D-0488   53399.241   600B   -75±29   0.93   37±151   0.70   nnn   HD 61045   MS:B8:M.AP   070.D-0352   52678.186   600B   -75±29   0.93   37±151   0.70   nnn   HD 61045   MS:B8:M.AP   070.D-0352   52678.186   600B   075±29   0.	HD 55718	MS:B3:SPB	079.D-0241	54343.401	600B	$-6 \pm 48$	0.78	$31 \pm 59$	0.78	nnn
HD 56014   GS:B3:E   075.D-0507   53511.976   1200g   -91 ± 44   0.96   41 ± 43   0.91   mn   HD 56014   GS:B3:E   380.D-0480   54432.163   1200B   54 ± 26   0.78   -33 ± 24   0.65   mn   HD 56014   GS:B3:E   380.D-0480   54432.163   1200B   9 ± 26   1.26   -41 ± 21   0.83   mn   HD 56014   GS:B3:E   380.D-0480   54432.163   1200B   9 ± 26   1.26   -41 ± 21   0.83   mn   HD 56455   MS:A0:AP   072.D-0377   52999.251   600B   160 ± 91   0.83   -120 ± 93   0.86   mn   HD 56139   MS:B2:E   075.D-0507   53503.049   1200g   46 ± 54   1.10   19 ± 51   0.96   mn   HD 56343   MS:B9:M-AP   073.D-0498   53269.356   600B   -3731±78   1.34   83 ± 65   0.91   DDD MD   MS 448   MS:B8:AP   072.D-0377   52999.265   600B   -178 ± 53   1.02   138 ± 52   0.99   dnd   HD 58448   MS:B8:AP   072.D-0377   52999.265   600B   44 ± 89   0.83   34 ± 89   0.84   mn   HD 58011   SG:B1:E.P   075.D-0507   53503.031   1200g   -6 ± 70   1.04   119 ± 68   0.98   mnn   HD 58050   MS:B2:E   075.D-0507   53503.031   1200g   -116 ± 51   0.93   -66 ± 51   0.91   mn   HD 58978   GS:B1   080.D-0383   54549.082   600B   -148 ± 232   1.02   310 ± 262   0.87   mnn   HD 58978   GS:B1   080.D-0383   54549.096   600B   -148 ± 232   1.02   310 ± 262   0.87   mnn   HD 58055   MS:B2:E   075.D-0507   5360.417   1200g   -116 ± 51   0.93   -66 ± 51   0.91   mn   HD 58978   GS:B1   080.D-0383   54549.096   600B   -434 ± 54   0.95   -138 ± 52   0.89   dDD   HD 60435   MS:B3:E   080.D-0383   54549.096   600B   -454 ± 54   0.95   -138 ± 52   0.89   dDD   HD 60435   MS:B3:E   080.D-0383   54549.096   600B   -454 ± 54   0.95   -138 ± 52   0.89   dDD   HD 60435   MS:B3:E   080.D-0383   54549.096   600B   -454 ± 54   0.95   -138 ± 52   0.89   dDD   HD 60435   MS:B3:E   080.D-0383   54549.096   600B   -454 ± 54   0.95   -138 ± 52   0.89   dDD   HD 60435   MS:B3:E   080.D-0383   54549.096   600B   -454 ± 54   0.95   -138 ± 52   0.89   dDD   HD 60685   MS:B3:E   080.D-0383   54549.096   600B   -454 ± 54   0.95   -138 ± 52   0.89   dDD   HD 60696   MS:B9   074.D-0488   5339	HD 56350	MS:B:M.AP		52999.239	600B	$888 \pm 75$	0.96	$-8 \pm 69$	0.80	DDD
HD 56014   GS:B3:E   380.D-0480   54432.163   1200B   54±26   0.78   -33±24   0.65   nnn   HD 56014   GS:B3:E   380.D-0480   54432.163   1200B   54±26   0.78   -33±24   0.65   nnn   HD 56014   GS:B3:E   380.D-0480   54432.134   1200B   9±26   1.26   -41±21   0.83   nnn   HD 56455   MS:A0:AP   072.D-0377   52999.251   600B   160±91   0.83   -120±93   0.86   nnn   HD 56139   MS:B2:E   075.D-0507   53503.049   1200g   46±54   1.10   19±51   0.96   nnn   HD 56134   MS:B9:MAP   073.D-0498   53269.356   600B   -373±53   1.02   138±52   0.99   dnd   HD 58448   MS:B8:AP   074.D-0442   53331.275   600B   -178±53   1.02   138±52   0.99   dnd   HD 58448   MS:B8:AP   072.D-0377   52999.265   600B   44±89   0.83   34±89   0.84   nnn   HD 58011   SG:B1:E.P   075.D-0507   53503.031   1200g   -6±70   1.04   119±68   0.98   nnn   HD 58011   SG:B1:E.P   075.D-0507   53503.047   1200g   -16±51   0.93   -66±51   0.91   nnn   HD 58050   MS:B2:E   075.D-0507   53503.047   1200g   -116±51   0.93   -66±51   0.91   nnn   HD 58715   MS:B8:E   080.D-0383   54549.060   600B   -148±232   1.02   310±262   0.87   nnn   HD 58715   MS:B8:E   080.D-0383   54549.060   600B   -38±52   0.88   63±61   0.88   nnn   HD 60435   MS:A3:M.AP   072.D-0377   5300.072   600B   -454±54   0.95   -138±52   0.89   dDD   HD 60855   MS:B2   080.D-0383   54549.060   600B   -38±52   0.88   63±61   0.88   nnn   HD 60940   MS:B8   074.D-0488   53399.241   600B   9±38   0.66   6±38   0.66   nnn   BD-14 2015   MS:B9   074.D-0488   53399.241   600B   -42±54   0.65   -97±58   0.73   nnn   HD 60968   MS:G5   074.D-0488   53399.241   600B   -75±129   0.93   -37±151   0.87   nnn   HD 60968   MS:B9   074.D-0488   53399.241   600B   -38±52   0.97   -6±47   0.85   nnn   HD 60968   MS:A3:AAP   072.D-0352   52678.186   600B   -38±52   0.97   -6±47   0.85   nnn   HD 60968   MS:A3:AP   272.D-5026   53063.186   600B   -35±22   0.77   -20±21   0.70   -nn   0.600   0.600   0.600   0.600   0.600   0.600   0.600   0.600   0.600   0.600   0.600   0.600   0.600   0.600   0.600   0.600										nnn
HD 56014   GS:B3:E   380.D-0480   54432.163   1200B   54±26   0.78   -33±24   0.65   nnn   HD 56014   GS:B3:E   380.D-0480   54433.134   1200B   9±26   1.26   -41±21   0.83   nnn   HD 56455   MS:A0:AP   072.D-0377   52999.251   600B   160±91   0.83   -120±93   0.86   nnn   HD 56139   MS:B2:E   075.D-0507   53503.049   1200g   46±54   1.10   19±51   0.96   nnn   HD 56343   MS:B9:M.AP   073.D-0498   53269.356   600B   -3731±78   1.34   83±65   0.91   DDD   NX Pup   PM:A0   074.C-0442   53331.275   600B   -178±53   1.02   138±52   0.99   dnd   HD 58448   MS:B8:AP   072.D-0377   52999.265   600B   44±89   0.83   34±89   0.84   nnn   HD 58011   SG:B1:E.P   075.D-0507   53503.031   1200g   -6±70   1.04   119±68   0.98   nnn   HD 58011   SG:B1:E.P   080.D-0383   54549.082   600B   -145±106   0.69   203±148   0.86   nnn   HD 58050   MS:B2:E   075.D-0507   53630.417   1200g   -116±51   0.93   -66±61   0.91   nnn   HD 58715   MS:B8:E   080.D-0383   54549.060   600B   -38±52   0.88   63±61   0.88   nnn   HD 60435   MS:B3:E   080.D-0383   54549.060   600B   -38±52   0.88   63±61   0.88   nnn   HD 60435   MS:B3:E   080.D-0383   54549.060   600B   -454±54   0.95   -138±52   0.89   dDD   MD 60855   MS:B2   080.D-0383   54549.049   600B   88±93   0.81   14±92   0.79   nnn   HD 60940   MS:B8   074.D-0488   53399.241   600B   9±38   0.68   6±38   0.66   nnn   BD-14 2015   MS:B9   074.D-0488   53399.241   600B   -42±54   0.65   -97±58   0.73   nnn   HD 60996   MS:B9   074.D-0488   53399.241   600B   -42±54   0.65   -97±58   0.73   nnn   HD 60996   MS:B9   074.D-0488   53399.241   600B   -42±54   0.65   -97±58   0.73   nnn   HD 60996   MS:B9   074.D-0488   53399.241   600B   -42±54   0.65   -97±58   0.73   nnn   HD 60996   MS:B9   074.D-0488   53399.241   600B   -42±54   0.65   -97±58   0.73   nnn   HD 60996   MS:B9   074.D-0488   53399.241   600B   -42±54   0.65   -97±58   0.73   nnn   HD 60996   MS:B9   074.D-0488   53399.241   600B   -42±59   0.66   0.66   0.66   0.66   0.66   0.66   0.66   0.66   0.66   0.66   0.66   0.66										nnn
HD 56014   GS:B3:E   380.D-0480   54433.134   1200B   9 ± 26   1.26   -41 ± 21   0.83   nnn   HD 56455   MS:A0:AP   072.D-0377   52999.251   600B   160±91   0.83   -120±93   0.86   nnn   HD 56139   MS:B2:E   075.D-0507   53503.049   1200g   46±54   1.10   19 ± 51   0.96   nnn   HD 56343   MS:B9:M.AP   073.D-0498   53269.356   600B   -3731±78   1.34   83±65   0.91   DDD   NX Pup   PM:A0   074.C-0442   53331.275   600B   -178±53   1.02   138±52   0.99   dnd   1D58448   MS:B8:AP   072.D-0377   52999.265   600B   44±89   0.83   34±89   0.84   nnn   HD 58011   SG:B1:E.P   075.D-0507   53503.031   1200g   -6±70   1.04   119±68   0.98   nnn   HD 58011   SG:B1:E.P   075.D-0507   53503.031   1200g   -6±70   1.04   119±68   0.98   nnn   HD 58050   MS:B2:E   075.D-0507   53503.041   1200g   -116±51   0.69   203±148   0.86   nnn   HD 58978   GS:B1   080.D-0383   54548.996   600B   -148±232   1.02   310±262   0.87   nnn   HD 58715   MS:B8:E   080.D-0383   54549.060   600B   -38±52   0.88   63±61   0.98   nnn   HD 60435   MS:A3:M.AP   072.D-0377   53000.072   600B   88±93   0.81   14±92   0.79   nnn   HD 60940   MS:B8   074.D-0488   53399.241   600B   -42±54   0.65   -97±58   0.73   nnn   HD 60968   MS:G5   074.D-0488   53399.241   600B   -42±54   0.65   -97±58   0.73   nnn   HD 60968   MS:G5   074.D-0488   53399.241   600B   -75±129   0.93   -37±151   0.87   nnn   HD 61068   GS:B2:BCEP   078.D-0140   54107.338   600B   -75±22   0.77   -20±21   0.70   -nn   CD-31 4800   SD:O   072.D-0290   53068.115   600B   -75±129   0.93   -37±151   0.87   nnn   HD 61068   MS:B9   074.D-0488   53399.241   600B   -75±129   0.93   -37±151   0.87   nnn   HD 61068   MS:B9   074.D-0488   53399.241   600B   -75±129   0.93   -37±151   0.87   nnn   HD 61068   MS:B9   074.D-0488   53399.241   600B   -75±20   0.97   -6±47   0.85   nnn   HD 61064   MS:A8   070.D-0352   52678.186   600B   -75±129   0.93   -37±151   0.87   nnn   HD 61064   MS:B8:M.AP   070.D-0352   52678.186   600B   -75±52   0.97   -6±47   0.85   nnn   HD 61045   MS:B8:M.AP   070.D-										
HD 56455   MS:A0:AP   072.D-0377   52999.251   600B   160 ± 91   0.83   -120 ± 93   0.86   nnn   HD 56139   MS:B2:E   075.D-0507   53503.049   1200g   46 ± 54   1.10   19 ± 51   0.96   nnn   HD 56343   MS:B9:M.AP   073.D-0498   53269.356   600B   -3731 ± 78   1.34   83 ± 65   0.91   DDD   NX Pup   PM:A0   074.C-0442   53331.275   600B   -178 ± 53   1.02   138 ± 52   0.99   dnd   HD 58448   MS:B8:AP   072.D-0377   52999.265   600B   44 ± 89   0.83   34 ± 89   0.84   nnn   HD 58011   SG:B1:E.P   075.D-0507   53503.031   1200g   -6 ± 70   1.04   119 ± 68   0.98   nnn   HD 58011   SG:B1:E.P   080.D-0383   54549.082   600B   -145 ± 106   0.69   203 ± 148   0.86   nnn   HD 58050   MS:B2:E   075.D-0507   53630.417   1200g   -116 ± 51   0.93   -66 ± 51   0.91   nnn   HD 58978   GS:B1   080.D-0383   54549.060   600B   -148 ± 232   1.02   310 ± 262   0.87   nnn   HD 58978   MS:B8:E   080.D-0383   54549.060   600B   -38 ± 52   0.88   63 ± 61   0.88   nnn   HD 60435   MS:A3:M.AP   072.D-0377   53000.072   600B   -454 ± 54   0.95   -138 ± 52   0.89   dDD   HD 60855   MS:B2   080.D-0383   54549.049   600B   84 ± 33   0.81   14 ± 92   0.79   nnn   HD 60940   MS:B8   074.D-0488   53399.241   600B   9 ± 38   0.68   6 ± 38   0.66   nnn   BD-14 2015   MS:B9   074.D-0488   53399.241   600B   -42 ± 54   0.65   -97 ± 58   0.73   nnn   HD 60996   MS:B9   074.D-0488   53399.241   600B   -75 ± 129   0.93   -37 ± 151   0.87   nnn   HD 60996   MS:B9   074.D-0488   53399.241   600B   -75 ± 129   0.93   -37 ± 151   0.87   nnn   HD 61068   GS:B2:BCEP   078.D-0140   54107.338   600B   -75 ± 129   0.93   -37 ± 151   0.87   nnn   HD 61068   GS:B2:BCEP   078.D-0140   53063.180   600B   25 ± 93   0.92   -189 ± 91   0.89   nnn   HD 61045   MS:A8   070.D-0352   52678.186   600B   37 ± 200   0.68   123 ± 200   0.69   nnn   BD-14 2028   MS:A1:AP   272.D-5026   53063.180   600B   297 ± 59   0.80   95 ± 61   0.85   dnD   BD-14 2040   MS:A1:AP   074.D-0488   53399.212   600B   -57 ± 58   0.95   12 ± 56   0.86   nnn   BD-14 2040   MS:A1:AP   074.D-048										
HD 56139   MS:B2:E   075.D-0507   53503.049   1200g   46 ± 54   1.10   19 ± 51   0.96   nnn     HD 56343   MS:B9:M.AP   073.D-0498   53269.356   600B   -3731 ± 78   1.34   83 ± 65   0.91   DDD     MX Pup   PM:AO   074.C-0442   53331.275   600B   -178 ± 53   1.02   138 ± 52   0.99   dnd     HD 58448   MS:B8:AP   072.D-0377   52999.265   600B   44 ± 89   0.83   34 ± 89   0.84   nnn     HD 58011   SG:B1:E.P   075.D-0507   53503.031   1200g   -6 ± 70   1.04   119 ± 68   0.98   nnn     HD 58011   SG:B1:E.P   080.D-0383   54549.082   600B   -145 ± 106   0.69   203 ± 148   0.86   nnn     HD 58050   MS:B2:E   075.D-0507   53630.417   1200g   -116 ± 51   0.93   -66 ± 51   0.91   nnn     HD 58978   GS:B1   080.D-0383   54548.996   600B   -148 ± 232   1.02   310 ± 262   0.87   nnn     HD 58715   MS:B8:E   080.D-0383   54549.060   600B   -38 ± 52   0.88   63 ± 61   0.88   nnn     HD 60435   MS:A3:M.AP   072.D-0377   53000.072   600B   -454 ± 54   0.95   -138 ± 52   0.89   dDD     HD 60855   MS:B2   080.D-0383   54549.049   600B   88 ± 93   0.81   14 ± 92   0.79   nnn     HD 60940   MS:B8   074.D-0488   53399.241   600B   9 ± 38   0.68   6 ± 38   0.66   nnn     HD 60968   MS:G5   074.D-0488   53399.241   600B   -42 ± 54   0.65   -97 ± 58   0.73   nnn     HD 60966   MS:B9   074.D-0488   53399.241   600B   -75 ± 129   0.93   -37 ± 151   0.87   nnn     HD 61068   GS:B2:BCEP   078.D-0140   54107.338   600B   -3 ± 52   0.97   -6 ± 47   0.85   nnn     HD 61068   GS:B2:BCEP   078.D-0140   54107.338   600B   -3 ± 52   0.97   -6 ± 47   0.85   nnn     HD 61065   MS:A8   070.D-0352   52678.186   600B   25 ± 93   0.92   -189 ± 91   0.89   nnn     BD-14 2028   MS:A1:AP   272.D-5026   53063.180   600B   25 ± 93   0.92   -189 ± 91   0.89   nnn     BD-14 2040   MS:A1:AP   070.D-0352   52678.186   600B   297 ± 59   0.80   95 ± 61   0.85   dnD     BD-14 2040   MS:A1:AP   070.D-0352   52678.186   600B   26 ± 164   0.68   70 ± 164   0.68   nnn     BD-14 2040   MS:A1:AP   070.D-0352   52678.186   600B   26 ± 164   0.68   70 ± 164   0.68   nnn										
HD 56343   MS:B9:M.AP   073.D-0498   53269.356   600B   -3731±78   1.34   83±65   0.91   DDD										
NX Pup PM:A0 074.C-0442 53331.275 600B -178±53 1.02 138±52 0.99 dnd HD 58448 MS:B8:AP 072.D-0377 52999.265 600B 44±89 0.83 34±89 0.84 nnn HD 58011 SG:B1:E.P 075.D-0507 53503.031 1200g -6±70 1.04 119±68 0.98 nnn HD 58011 SG:B1:E.P 080.D-0383 54549.082 600B -145±106 0.69 203±148 0.86 nnn HD 58050 MS:B2:E 075.D-0507 53630.417 1200g -116±51 0.93 -66±51 0.91 nnn HD 58978 GS:B1 080.D-0383 54549.082 600B -148±232 1.02 310±262 0.87 nnn HD 58978 MS:B8:E 080.D-0383 54549.060 600B -38±52 0.88 63±61 0.88 nnn HD 60435 MS:A3:M.AP 072.D-0377 53000.072 600B -38±52 0.88 63±61 0.88 nnn HD 60435 MS:B8:E 080.D-0383 54549.060 600B -38±52 0.89 63±61 0.88 nnn HD 60435 MS:B8:E 080.D-0383 54549.060 600B -454±54 0.95 -138±52 0.89 dDD HD 60855 MS:B2 080.D-0383 54549.049 600B 88±93 0.81 14±92 0.79 nnn HD 60940 MS:B8 074.D-0488 53399.241 600B 9±38 0.68 6±38 0.66 nnn HD 60940 MS:B8 074.D-0488 53399.241 600B -42±54 0.65 -97±58 0.73 nnn HD 60968 MS:G5 074.D-0488 53399.241 600B -55±22 0.77 -20±21 0.70 -nn CD-314800 SD:O 072.D-0290 53058.215 600B -75±129 0.93 -37±151 0.87 nnn HD 60996 MS:B9 074.D-0488 53399.241 600B -75±22 0.77 -20±21 0.70 -nn CD-314800 SD:O 072.D-0290 53058.215 600B -75±22 0.77 -20±21 0.70 -nn NGC 2422 PMS911 MS:A6 070.D-0352 52678.186 600B 37±200 0.68 123±200 0.69 nnn NGC 2422 PMS911 MS:A6 070.D-0352 52678.186 600B 37±200 0.68 123±200 0.69 nnn BD-14 2028 MS:A1:AP 272.D-5026 53063.180 600B 25±93 0.92 -189±91 0.89 nnn BD-14 2028 MS:A1:AP 272.D-5026 53063.180 600B 412±45 0.67 46±46 0.69 DDD HD 61045 MS:B8:M.AP 070.D-0352 52678.186 600B 297±59 0.80 95±61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297±59 0.80 95±61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297±59 0.80 95±61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297±59 0.80 95±61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297±59 0.80 95±61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297±59 0.80 95±61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297±59 0.80 95±61 0.86 nnn										
HD 58448 MS:B8:AP 072.D-0377 52999.265 600B 44 ± 89 0.83 34 ± 89 0.84 nnn HD 58011 SG:B1:E.P 075.D-0507 53503.031 1200g -6 ± 70 1.04 119 ± 68 0.98 nnn HD 58011 SG:B1:E.P 080.D-0383 54549.082 600B -145 ± 106 0.69 203 ± 148 0.86 nnn HD 58050 MS:B2:E 075.D-0507 53630.417 1200g -116 ± 51 0.93 -66 ± 51 0.91 nnn HD 58978 GS:B1 080.D-0383 54549.096 600B -148 ± 232 1.02 310 ± 262 0.87 nnn HD 58715 MS:B8:E 080.D-0383 54549.066 600B -38 ± 52 0.88 63 ± 61 0.88 nnn HD 60435 MS:B8:E 080.D-0383 54549.066 600B -38 ± 52 0.88 63 ± 61 0.88 nnn HD 60855 MS:B2 080.D-0383 54549.049 600B 88 ± 93 0.81 14 ± 92 0.79 nnn HD 60940 MS:B8 074.D-0488 53399.241 600B 9 ± 38 0.68 6 ± 38 0.66 nnn BD-14 2015 MS:B9 074.D-0488 53399.241 600B -42 ± 54 0.65 -97 ± 58 0.73 nnn HD 60968 MS:G5 074.D-0488 53399.241 600B -42 ± 54 0.65 -97 ± 58 0.73 nnn HD 60960 MS:B9 074.D-0488 53399.241 600B -75 ± 129 0.93 -37 ± 151 0.87 nnn HD 60966 MS:B9 074.D-0488 53399.241 600B -75 ± 129 0.93 -37 ± 151 0.87 nnn HD 60966 MS:B9 074.D-0488 53399.241 600B -75 ± 129 0.93 -37 ± 151 0.87 nnn HD 60966 MS:B9 074.D-0488 53399.241 600B -75 ± 129 0.93 -37 ± 151 0.87 nnn HD 60966 MS:B9 074.D-0488 53399.241 600B -75 ± 129 0.93 -37 ± 151 0.87 nnn HD 60966 MS:B9 074.D-0488 53399.241 600B -75 ± 129 0.93 -37 ± 151 0.87 nnn HD 60968 MS:A6 070.D-0352 52678.186 600B -75 ± 129 0.93 -37 ± 151 0.87 nnn HD 61068 GS:B2:BCEP 078.D-0140 54107.338 600B -3 ± 52 0.97 -6 ± 47 0.85 nnn NGC 2422 PMS911 MS:A6 070.D-0352 52678.186 600B -3 ± 52 0.97 -6 ± 47 0.85 nnn NGC 2422 PMS119 MS:A8 070.D-0352 52678.186 600B -64 ± 110 0.93 263 ± 109 0.92 nnn HD 61045 MS:B8:M.AP 070.D-0352 52678.186 600B 25 ± 93 0.92 -189 ± 91 0.89 nnn BD-14 2028 MS:A1:AP 272.D-5026 53072.198 600B -64 ± 110 0.93 263 ± 109 0.92 nnn HD 61045 MS:B8:M.AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.86 nnn										
HD 58011   SG:B1:E.P   075.D-0507   53503.031   1200g   -6 ± 70   1.04   119 ± 68   0.98   nnn   HD 58011   SG:B1:E.P   080.D-0383   54549.082   600B   -145 ± 106   0.69   203 ± 148   0.86   nnn   HD 58050   MS:B2:E   075.D-0507   53630.417   1200g   -116 ± 51   0.93   -66 ± 51   0.91   nnn   HD 58078   GS:B1   080.D-0383   54549.060   600B   -148 ± 232   1.02   310 ± 262   0.87   nnn   HD 58715   MS:B8:E   080.D-0383   54549.060   600B   -38 ± 52   0.88   63 ± 61   0.88   nnn   HD 60435   MS:A3:M.AP   072.D-0377   53000.072   600B   -454 ± 54   0.95   -138 ± 52   0.89   dDD   dDDD   dDDDD   dDDDD   dDDDD   dDDDDD   dDDDDD   dDDDDDD   dDDDDDDDD										
HD 58011 SG:B1:E.P 080.D-0383 54549.082 600B -145±106 0.69 203±148 0.86 nnn HD 58050 MS:B2:E 075.D-0507 53630.417 1200g -116±51 0.93 -66±51 0.91 nnn HD 58978 GS:B1 080.D-0383 54548.996 600B -148±232 1.02 310±262 0.87 nnn HD 58715 MS:B8:E 080.D-0383 54549.060 600B -38±52 0.88 63±61 0.88 nnn HD 60435 MS:A3:M.AP 072.D-0377 53000.072 600B -454±54 0.95 -138±52 0.89 dDD HD 60855 MS:B2 080.D-0383 54549.049 600B 88±93 0.81 14±92 0.79 nnn HD 60940 MS:B8 074.D-0488 53399.241 600B 9±38 0.68 6±38 0.66 nnn BD-14 2015 MS:B9 074.D-0488 53399.241 600B 9±38 0.66 6±38 0.66 nnn HD 60968 MS:G5 074.D-0488 53399.241 600B -42±54 0.65 -97±58 0.73 nnn HD 60968 MS:G5 074.D-0488 53399.241 600B -55±22 0.77 -20±21 0.70 -nn CD-31 4800 SD:O 072.D-0290 53058.215 600B -75±129 0.93 -37±151 0.87 nnn HD 60996 MS:B9 074.D-0488 53399.241 600B 71±43 0.67 -29±43 0.67 nnn HD 61068 GS:B2:BCEP 078.D-0140 54107.338 600B -3±52 0.97 -6±47 0.85 nnn NGC 2422 PMS921 MS:A6 070.D-0352 52678.186 600B -184±224 0.70 124±227 0.72 nnn BD-14 2028 MS:A1:AP 272.D-5026 53063.180 600B 25±93 0.92 -189±91 0.89 nnn BD-14 2028 MS:A1:AP 272.D-5026 53063.180 600B 25±93 0.92 -189±91 0.89 nnn BD-14 2028 MS:A1:AP 272.D-5026 53072.198 600B 412±45 0.67 46±46 0.69 DDD HD 61045 MS:B8:M.AP 070.D-0352 52678.186 600B 412±45 0.67 46±46 0.69 DDD HD 61045 MS:B8:M.AP 070.D-0352 52678.186 600B 27±59 0.80 95±61 0.85 dnD BD-14 2028 MS:A1:AP 272.D-5026 53063.180 600B 27±59 0.80 95±61 0.85 dnD BD-14 2028 MS:A1:AP 272.D-5026 53072.198 600B 412±45 0.67 46±46 0.69 DDD HD 61045 MS:B8:M.AP 070.D-0352 52678.186 600B 412±45 0.67 46±46 0.69 DDD BD HD 61045 MS:B8:M.AP 070.D-0352 52678.186 600B 27±59 0.80 95±61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26±164 0.68 70±164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26±164 0.68 70±164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26±164 0.68 70±164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26±164 0.68 70±164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26±164 0.68 70±164 0.68 nnn BD-14 2040 MS:A1:AP 07										
HD 58050   MS:B2:E   075.D-0507   53630.417   1200g   -116±51   0.93   -66±51   0.91   nnn   HD 58978   GS:B1   080.D-0383   54548.996   600B   -148±232   1.02   310±262   0.87   nnn   HD 58715   MS:B8:E   080.D-0383   54549.060   600B   -38±52   0.88   63±61   0.88   nnn   HD 60435   MS:A3:M.AP   072.D-0377   53000.072   600B   -45±54   0.95   -138±52   0.89   dDD   HD 60855   MS:B2   080.D-0383   54549.049   600B   88±93   0.81   14±92   0.79   nnn   HD 60940   MS:B8   074.D-0488   53399.241   600B   9±38   0.68   6±38   0.66   nnn   BD-14 2015   MS:B9   074.D-0488   53399.241   600B   -42±54   0.65   -97±58   0.73   nnn   HD 60968   MS:G5   074.D-0488   53399.241   600B   -75±22   0.77   -20±21   0.70   -nn   CD-31 4800   SD:O   072.D-0290   53058.215   600B   -75±129   0.93   -37±151   0.87   nnn   HD 61068   GS:B2:BCEP   078.D-0140   54107.338   600B   -3±52   0.97   -6±47   0.85   nnn   NGC 2422 PMS921   MS:A6   070.D-0352   52678.186   600B   -184±224   0.70   124±227   0.72   nnn   NGC 2422 PMS119   MS:A8   070.D-0352   52678.186   600B   25±93   0.92   -189±91   0.89   nnn   BD-14 2028   MS:A1:AP   272.D-5026   53063.180   600B   25±93   0.92   -189±91   0.89   nnn   BD-14 2028   MS:A1:AP   272.D-5026   53072.198   600B   27±59   0.80   95±61   0.85   dnD   BD-14 2033   MS:A1   070.D-0352   52678.186   600B   297±59   0.80   95±61   0.85   dnD   BD-14 2040   MS:A1:AP   070.D-0352   52678.186   600B   26±140   0.70   39±193   0.64   nnd   BD-14 2040   MS:A1:AP   070.D-0352   52678.186   600B   26±164   0.68   70±164   0.68   nnn   BD-14 2040   MS:A1:AP   070.D-0352   52678.186   600B   26±164   0.68   70±164   0.68   nnn   BD-14 2040   MS:A1:AP   070.D-0352   52678.186   600B   26±164   0.68   70±164   0.68   nnn   BD-14 2040   MS:A1:AP   070.D-0352   52678.186   600B   26±164   0.68   70±164   0.68   nnn   BD-14 2040   MS:A1:AP   070.D-0352   52678.186   600B   26±164   0.68   70±164   0.68   nnn   BD-14 2040   MS:A1:AP   070.D-0352   52678.186   600B   26±164   0.68   70±164   0.68   nnn   BD-14 204										
HD 58978 GS:B1 080.D-0383 54548.996 600B -148 ± 232 1.02 310 ± 262 0.87 nnn HD 58715 MS:B8:E 080.D-0383 54549.060 600B -38 ± 52 0.88 63 ± 61 0.88 nnn HD 60435 MS:A3:M.AP 072.D-0377 53000.072 600B -454 ± 54 0.95 -138 ± 52 0.89 dDD HD 60855 MS:B2 080.D-0383 54549.049 600B 88 ± 93 0.81 14 ± 92 0.79 nnn HD 60940 MS:B8 074.D-0488 53399.241 600B 9 ± 38 0.68 6 ± 38 0.66 nnn BD-14 2015 MS:B9 074.D-0488 53399.241 600B -42 ± 54 0.65 -97 ± 58 0.73 nnn HD 60968 MS:G5 074.D-0488 53399.241 600B -55 ± 22 0.77 -20 ± 21 0.70 -nn CD-31 4800 SD:O 072.D-0290 53058.215 600B -75 ± 129 0.93 -37 ± 151 0.87 nnn HD 60996 MS:B9 074.D-0488 53399.241 600B 71 ± 43 0.67 -29 ± 43 0.67 nnn HD 61068 GS:B2:BCEP 078.D-0440 54107.338 600B -3 ± 52 0.97 -6 ± 47 0.85 nnn NGC 2422 PMS921 MS:A6 070.D-0352 52678.186 600B -184 ± 224 0.70 124 ± 227 0.72 nnn NGC 2422 PMS119 MS:A8 070.D-0352 52678.186 600B 37 ± 200 0.68 123 ± 200 0.69 nnn BD-14 2028 MS:A1:AP 272.D-5026 53063.180 600B 25 ± 93 0.92 -189 ± 91 0.89 nnn BD-14 2028 MS:A1:AP 272.D-5026 53072.198 600B 412 ± 45 0.67 46 ± 46 0.69 DDD HD 61045 MS:B8:M.AP 070.D-0352 52678.186 600B 412 ± 45 0.67 46 ± 46 0.69 DDD HD 61045 MS:B8:M.AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2033 MS:A1 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95										
HD 58715 MS:B8:E 080.D-0383 54549.060 600B -38 ± 52 0.88 63 ± 61 0.88 nnn HD 60435 MS:A3:M.AP 072.D-0377 53000.072 600B -454 ± 54 0.95 -138 ± 52 0.89 dDD HD 60855 MS:B2 080.D-0383 54549.049 600B 88 ± 93 0.81 14 ± 92 0.79 nnn HD 60940 MS:B8 074.D-0488 53399.241 600B 9 ± 38 0.68 6 ± 38 0.66 nnn BD-14 2015 MS:B9 074.D-0488 53399.241 600B -42 ± 54 0.65 -97 ± 58 0.73 nnn HD 60968 MS:G5 074.D-0488 53399.241 600B -55 ± 22 0.77 -20 ± 21 0.70 -nn CD-31 4800 SD:O 072.D-0290 53058.215 600B -75 ± 129 0.93 -37 ± 151 0.87 nnn HD 60996 MS:B9 074.D-0488 53399.241 600B 71 ± 43 0.67 -29 ± 43 0.67 nnn HD 61068 GS:B2:BCEP 078.D-0140 54107.338 600B -3 ± 52 0.97 -6 ± 47 0.85 nnn NGC 2422 PMS921 MS:A6 070.D-0352 52678.186 600B -184 ± 224 0.70 124 ± 227 0.72 nnn NGC 2422 PMS119 MS:A8 070.D-0352 52678.186 600B 37 ± 200 0.68 123 ± 200 0.69 nnn BD-14 2028 MS:A1:AP 272.D-5026 53063.180 600B -64 ± 110 0.93 263 ± 109 0.92 nnn HD 61045 MS:B8:M.AP 070.D-0352 52678.186 600B 412 ± 45 0.67 46 ± 46 0.69 DDD HD 61045 MS:B8:M.AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2033 MS:A1 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0488 53399.212 600B -57 ± 58 0.95 12 ± 56 0.86 nnn										
HD 60435 MS:A3:M.AP 072.D-0377 53000.072 600B -454 ± 54 0.95 -138 ± 52 0.89 dDD HD 60855 MS:B2 080.D-0383 54549.049 600B 88 ± 93 0.81 14 ± 92 0.79 nnn HD 60940 MS:B8 074.D-0488 53399.241 600B 9 ± 38 0.68 6 ± 38 0.66 nnn BD-14 2015 MS:B9 074.D-0488 53399.241 600B -42 ± 54 0.65 -97 ± 58 0.73 nnn HD 60968 MS:G5 074.D-0488 53399.241 600B -55 ± 22 0.77 -20 ± 21 0.70 -nn CD-31 4800 SD:O 072.D-0290 53058.215 600B -75 ± 129 0.93 -37 ± 151 0.87 nnn HD 60996 MS:B9 074.D-0488 53399.241 600B 71 ± 43 0.67 -29 ± 43 0.67 nnn HD 61068 GS:B2:BCEP 078.D-0140 54107.338 600B 71 ± 43 0.67 -29 ± 43 0.67 nnn NGC 2422 PMS921 MS:A6 070.D-0352 52678.186 600B -184 ± 224 0.70 124 ± 227 0.72 nnn NGC 2422 PMS119 MS:A8 070.D-0352 52678.186 600B 37 ± 200 0.68 123 ± 200 0.69 nnn BD-14 2028 MS:A1:AP 272.D-5026 53063.180 600B 25 ± 93 0.92 -189 ± 91 0.89 nnn BD-14 2028 MS:A1:AP 272.D-5026 53072.198 600B -64 ± 110 0.93 263 ± 109 0.92 nnn HD 61045 MS:B8:M.AP 070.D-0352 52678.186 600B 412 ± 45 0.67 46 ± 46 0.69 DDD HD 61045 MS:B8:M.AP 070.D-0352 52678.186 600B 297 ± 59 0.80 95 ± 61 0.85 dnD BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn BD-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn ND-14 2040 MS:A1:AP 070.D-0352 52678.186 600B 26 ± 164 0.68 70 ± 164 0.68 nnn ND-14 2040 MS:A1:AP 070.D-0352 52678.186										
HD 60940 MS:B8 074.D-0488 53399.241 600B 9±38 0.68 6±38 0.66 nnn BD-14 2015 MS:B9 074.D-0488 53399.241 600B -42±54 0.65 -97±58 0.73 nnn HD 60968 MS:G5 074.D-0488 53399.241 600B -55±22 0.77 -20±21 0.70 -nn CD-31 4800 SD:O 072.D-0290 53058.215 600B -75±129 0.93 -37±151 0.87 nnn HD 60996 MS:B9 074.D-0488 53399.241 600B 71±43 0.67 -29±43 0.67 nnn HD 61068 GS:B2:BCEP 078.D-0140 54107.338 600B 71±43 0.67 -29±43 0.67 nnn NGC 2422 PMS921 MS:A6 070.D-0352 52678.186 600B -184±224 0.70 124±227 0.72 nnn NGC 2422 PMS119 MS:A8 070.D-0352 52678.186 600B 37±200 0.68 123±200 0.69 nnn BD-14 2028 MS:A1:AP 272.D-5026 53063.180 600B 25±93 0.92 -189±91 0.89 nnn BD-14 2028 MS:A1:AP 272.D-5026 53072.198 600B -64±110 0.93 263±109 0.92 nnn HD 61045 MS:B8:M.AP 070.D-0352 52678.186 600B 412±45 0.67 46±46 0.69 DDD HD 61045 MS:B8:M.AP 074.D-0488 53399.258 600B 297±59 0.80 95±61 0.85 dnD BD-14 2033 MS:A1 070.D-0352 52678.186 600B 26±164 0.68 70±164 0.68 nnn BD-14 2040 MS:A1:AP 074.D-0488 53399.212 600B -57±58 0.95 12±56 0.86 nnn	HD 60435	MS:A3:M.AP	072.D-0377	53000.072	600B		0.95			dDD
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	HD 60855	MS:B2	080.D-0383	54549.049	600B	$88 \pm 93$	0.81	$14 \pm 92$	0.79	nnn
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	HD 60940		074.D-0488				0.68			nnn
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$										nnn
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										-nn
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										nnn
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$										
BD-14 2040 MS:A1:AP 074.D-0488 53399.212 600B $-57 \pm 58$ 0.95 $12 \pm 56$ 0.86 nnn										

Table 5. continued.

Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
V547 Pup	WD:??:NOV	274.D-5025	53348.236	1200g					
HD 62376	MS:B7	074.D-0488	53399.112	600B	$88 \pm 54$	0.82	$-214 \pm 57$	0.90	nnn
HD 62367	MS:B8:E	080.D-0383	54549.096	600B	$31 \pm 55$	0.86	$-117 \pm 66$	0.83	nnn
CD-37 3845	MS:A0:P	070.D-0352	52678.203	600B	$-57 \pm 87$	0.75	$-67 \pm 87$	0.72	ndn
HD 62974	MS:A3	070.D-0352	52678.203	600B	$10 \pm 80$	0.71	$56 \pm 76$	0.65	nnn
HD 62992	MS:A0:M.AP	070.D-0352	52678.203	600B	$-189 \pm 37$	0.67	$-33 \pm 37$	0.63	ddD
HD 63079	MS:B7:AP	074.D-0488	53399.098	600B	$65 \pm 59$	0.86	$67 \pm 60$	0.88	nnn
NLTT 18393	MS:M3:HPM	080.D-0521	54426.285	600B	$-385 \pm 341$	0.75	(5 , 50	0.04	-nn
HD 63401 HD 63401	MS:B8:M.AP MS:B8:M.AP	070.D-0352 072.D-0377	52678.026 53002.053	600B 600B	$-589 \pm 53$ $153 \pm 95$	0.88 0.85	$-65 \pm 52$ $-55 \pm 95$	0.84 0.84	DDD
HD 63401	MS:B8:M.AP	072.D-0377 072.D-0377	53004.228	600B	$-414 \pm 101$	0.83	$-33 \pm 93$ $31 \pm 101$	0.84	nnn dnd
HD 63401	MS:B8:M.AP	072.D-0377 074.D-0488	53399.125	600B	$-414 \pm 101$ $322 \pm 55$	0.84	$-21 \pm 70$	0.87	DnD
HD 64368	MS:A5	074.D-0488 079.D-0241	54345.429	600B	$13 \pm 93$	0.84	-21 ± 70	0.67	nnn
HD 63975	MS:B8:HGMN	072.D-0241	52992.278	600B	$13 \pm 90$ $132 \pm 90$	0.93	$52 \pm 86$	0.87	nnn
NGC 2489 59	MS:B9	074.D-0488	53400.258	600B	$538 \pm 136$	0.99	$27 \pm 150$	0.89	ddd
NGC 2489 58	MS:A0	074.D-0488	53400.258	600B	$-6 \pm 165$	1.04	$-370 \pm 202$	1.01	nnn
NGC 2489 40	MS:B8	074.D-0488	53400.258	600B	$-312 \pm 158$	0.97	$-84 \pm 180$	0.82	nnn
HD 65691	MS:B8	068.D-0403	52310.252	600R	$-257 \pm 130$	0.83	$-66 \pm 131$	0.82	nnn
NGC 2489 5	MS:A0	074.D-0488	53400.258	600B	$478 \pm 198$	0.97	$65 \pm 232$	0.89	nnn
HD 65712	MS:A0:M.AP	070.D-0352	52679.306	600B	$-1296 \pm 71$	1.42	$64 \pm 61$	1.03	DDD
HD 65712	MS:A0:M.AP	074.D-0488	53399.183	600B	$-569 \pm 49$	1.08	$33 \pm 45$	0.90	DDD
CPD-60 942	MS:A1	068.D-0403	52310.252	600R	$210 \pm 212$	1.07	$-62 \pm 205$	1.00	nnn
CPD-60 944A	MS:A0:AP	068.D-0403	52310.252	600R	$53 \pm 67$	0.85	$7 \pm 64$	0.76	nnn
CPD-60 944A	MS:A0:AP	074.D-0488	53399.142	600B	$-61 \pm 52$	0.91	$-99 \pm 53$	0.93	nnn
CD-60 1929	GS:B9	068.D-0403	52310.252	600R	$29 \pm 83$	1.05	$10 \pm 79$	0.92	nnn
CPD-60 944B	MS:B9:M.AP	068.D-0403	52310.288	600R	$463 \pm 72$	0.84	$67 \pm 67$	0.75	dDD
CPD-60 944B	MS:B9:M.AP	074.D-0488	53399.161	600B	$240 \pm 53$	0.94	$31 \pm 51$	0.88	dnd
CD-60 1932	MS:A0	068.D-0403	52310.252	600R	$-244 \pm 253$	0.93	$141 \pm 246$	0.88	nnn
CD-60 1932	MS:A0	068.D-0403	52310.288	600R	$-48 \pm 209$	0.80	$-272 \pm 209$	0.76	nnn
NGC 2516 DAC311	MS:A0	068.D-0403	52310.288	600R	$351 \pm 346$	1.23	$287 \pm 320$	1.06	nnn
NGC 2516 DAC313	??:G	068.D-0403	52310.288	600R	$-389 \pm 433$	1.35	$446 \pm 465$	1.53	dnn
NGC 2516 SBL333	MS:B8	068.D-0403	52310.288	600R	170 - 106	1.10	22 - 04	0.07	_
HD 65869	MS:B9 MS:A0	068.D-0403 068.D-0403	52310.288	600R	$179 \pm 106$	1.10 0.84	$32 \pm 94$ -187 ± 74	$0.87 \\ 0.77$	nnn
HD 65896 HD 65950	MS:B9:HGMN	068.D-0403	52309.330 52310.323	600R 600R	$165 \pm 78$ $-90 \pm 45$	0.84	$-187 \pm 74$ $-2 \pm 40$	0.77	nnn
HD 65950	MS:B9:HGMN	072.D-0377	53002.067	600B	$-90 \pm 43$ $48 \pm 73$	0.90	$-2 \pm 40$ 25 ± 69	0.73	nnn nnn
NGC 2516 DAC515	??:F	068.D-0403	52310.323	600B	$145 \pm 189$	1.21	$-328 \pm 178$	1.06	nnn
V373 Car	MS:B	272.D-5026	53072.226	600B	$-98 \pm 48$	0.80	$150 \pm 46$	0.74	nnn
V373 Car	MS:B	068.D-0403	52310.180	600B	$56 \pm 39$	0.86	$22 \pm 36$	0.73	nnn
HD 65949	MS:B8:HGMN	072.D-0377	53002.082	600B	$-45 \pm 78$	0.85	$-80 \pm 77$	0.82	nnn
HD 65949	MS:B8:HGMN	078.D-0140	54108.300	600B	$-59 \pm 64$	0.91	$25 \pm 61$	0.84	nnn
HD 65949	MS:B8:HGMN	380.D-0480	54433.367	1200B	$-105 \pm 30$	1.16	$-253 \pm 28$	1.00	ndd
CPD-60 969	MS:B9	068.D-0403	52309.330	600R	$47 \pm 98$	0.79	$32 \pm 87$	0.62	nnn
HD 65949	MS:B8:HGMN	068.D-0403	52309.330	600R	$48 \pm 68$	0.89	$24 \pm 61$	0.74	nnn
NGC 2516 SBL559	UNCLASSIFIED	068.D-0403	52309.330	600R	$-279 \pm 229$	1.02	$593 \pm 238$	1.10	-nn
CPD-60 975	MS:A:V	068.D-0403	52309.160	600R	$198 \pm 93$	0.71	$-85 \pm 97$	0.76	ndn
CPD-60 975	MS:A:V	068.D-0403	52310.180	600R	$38 \pm 86$	0.76	$-87 \pm 79$	0.63	nnn
CPD-60 977	MS:F0	068.D-0403	52309.293	600R	$32 \pm 64$	0.74	$89 \pm 64$	0.75	nnn
HD 65987	MS:B9:M.AP	272.D-5026	53063.222	600B	$-442 \pm 62$	0.96	$-88 \pm 59$	0.89	DdD
V391 Car	MS:A0:AP	068.D-0403	52309.160	600R	$5 \pm 60$	0.72	$115 \pm 56$	0.65	nnn
V391 Car	MS:A0:AP	272.D-5026	53072.226	600B	$-138 \pm 78$	0.74	$-7 \pm 78$	0.74	nnn
HD 65987	MS:B9:M.AP	068.D-0403	52309.330	600R	$738 \pm 122$	1.07	$-327 \pm 114$	0.94	ddD
V391 Car	MS:A0:AP	068.D-0403	52310.180	600R	$14 \pm 58$	0.81	$-39 \pm 51$	0.69	nnn
V410 Car	MS:A7	068.D-0403	52309.293	600R	$-93 \pm 143$	0.86	$35 \pm 139$	0.81	nnn
V392 Car V392 Car	MS:A2 MS:A2	068.D-0403 068.D-0403	52310.180 52310.323	600R 600R	$63 \pm 69$ $147 \pm 133$	0.98 0.91	$125 \pm 58$ $139 \pm 135$	0.69 0.93	nnn
V392 Car V392 Car	MS:A2 MS:A2	272.D-5026		600B		0.91			nnn
NGC 2516 SBL658	UNCLASSIFIED	068.D-0403	53072.226 52309.293	600B	$96 \pm 80$ $61 \pm 370$	1.07	$143 \pm 81$ $133 \pm 373$	0.72 1.10	nnn
CD-60 1967	MS:B9	068.D-0403	52309.293	600R	$60 \pm 63$	0.74	$8 \pm 64$	0.79	nnn -nn
CD-60 1907 CD-60 1971	MS:B8	068.D-0403	52309.160	600R	$239 \pm 134$	0.74	$16 \pm 124$	0.79	n-n
V417 Car	MS:A6	068.D-0403	52309.100	600R	$-169 \pm 87$	0.30	$10 \pm 124$ $89 \pm 87$	0.74	nnn
CPD-60 984	MS:A2	068.D-0403	52309.293	600R	$216 \pm 102$	0.85	$-80 \pm 98$	0.79	-nn
CPD-60 986	MS:A2	068.D-0403	52309.293	600R	$0 \pm 102$	0.77	$-196 \pm 101$	0.76	nnn
V418 Car	MS:A6	068.D-0403	52310.180	600R	$69 \pm 128$	0.76	$-46 \pm 129$	0.76	nnn
CPD-60 988AB	MS:B8	068.D-0403	52309.160	600R	$110 \pm 362$	1.18	$-601 \pm 326$	0.96	n-n
CD-60 1974	MS:A1	272.D-5026	53072.226	600B	$-179 \pm 105$	0.76	$-34 \pm 103$	0.74	nnn
CD-60 1974	MS:A1	068.D-0403	52310.180	600R	$-251 \pm 115$	0.82	$-242 \pm 111$	0.76	nnn

Table 5. continued.

CD-60 1975 MS-199 OS8.D-9403 3239.9-169 0008 73 ± 99 0.88 207 ± 90 7 mm   mm   mm   mm   mm   mm   mm   m	Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
CD60 1978   MS-818   OSA-D-0403   2320-9203   OSB   S88 = 171   OSB   S32 = 157   OSB   OSB   CD60 1981   OSB   OS	CD-60 1975	MS:B9	068.D-0403	52309.160	600R	$73 \pm 89$	0.88	$207 \pm 89$	0.88	nnn
CD60 1979   MSA34										
CD01   DNA   MS.AELAM   DNA   D-0404   3230   100   COURT   T1 = 142   1.04   -64 ± 1.46   1.10   nn   NRC 2516 DAC801   UNCLASSIFIED   DNA   DNA   S2310.180   COURT   -62 ± 170   COURT   T1   T1   T1   T1   T1   T1   T1										
Note										
VA2O Car   MS:A3										
No.										
HD 66137   MS:B9						-109 ± 122	0.09	-0 ± 127	0.74	
HD 66194   MS-B2-PE   068 D-0403   5230-1214   0008   528±134   0.79   -120±132   0.77   md   CD-60 1996   MS-A8   068 D-0403   5231-0214   0008   202±103   0.81   -148±102   0.79   mn   mn   CD-60 1997   MS-P2   068 D-0403   5230-1214   0008   41±52   0.79   2.5±49   0.69   mn   CD-60 1997   MS-P2   068 D-0403   5230-1214   0008   41±52   0.79   2.5±49   0.69   mn   CD-60 1999   MS-A2   068 D-0403   5231-0214   0008   -106±148   0.79   -41±415   0.82   mn   CD-60 1999   MS-A2   070D-0352   52679-271   0008   -106±148   0.79   -42±151   0.82   mn   CD-60 1999   MS-A2   070D-0352   52679-271   0008   -92±155   0.81   183±146   0.73   mn   DD-0352   0.008   0.00						-165 + 142	1.00	-55 + 120	0.71	
CD-60 1996   MS:A8						103 ± 112	1.00	33 ± 120	0.71	
CD-60 1996						$528 \pm 134$	0.79	$-120 \pm 132$	0.77	nnd
CD-60 1997   MS-F2   008 D-0403   52310.214   600R   41±52   0.79   43±451   0.82   mm   CD-60 1999   MS-A2   0068 D-0403   52310.214   600R   -106±148   0.92   -10±41   0.82   mm   CD-60 1999   MS-A2   000D-0352   52679.271   600R   -05±155   0.81   1831 ±160   0.73   mm   CD-60 1999   MS-A2   000D-0352   52679.271   600R   -05±155   0.81   1831 ±160   0.73   mm   CD-60 1999   MS-A2   000D-0352   52679.271   600R   -05±155   0.81   1831 ±160   0.73   mm   CD-60 188   MS-MOMAP   068 D-0403   52310.214   600R   -05±155   0.16   15±42   0.86   DDD   DD 606318   MS-MOMAP   068 D-0403   52310.214   600R   6267±89   3.65   -1±38   0.78   DDD   DD 606318   MS-MOMAP   068 D-0403   52310.214   600R   6267±89   3.65   -1±38   0.78   DDD   CD 60318   MS-MOMAP   070D-0352   52679.271   600R   6480±91   5.87   12±31   0.78   DDD   CD 60318   MS-MOMAP   070D-0352   52679.271   600R   6480±91   5.87   12±31   0.78   DDD   CD 60318   MS-MOMAP   070D-0352   52679.271   600R   6480±91   5.87   12±31   0.78   DDD   CD 60318   MS-MOMAP   070D-0352   52679.271   600R   6480±91   5.87   0.72   -148±55   0.78   DDD   CD 60318   MS-MOMAP   070D-0488   53400.301   600B   7±57   0.77   7±2±3   0.66   mm   070D-0488   0.00	CD-60 1996	MS:A8	070.D-0352	52679.271	600R	$203 \pm 103$		$-148 \pm 102$	0.79	nnn
CD60   1999   MS:A2	CD-60 1997	MS:F2	068.D-0403	52310.214		$41 \pm 52$	0.79	$25 \pm 49$	0.69	nnn
DD-601999   MS-A2	CD-60 1997	MS:F2	070.D-0352	52679.271	600R	$121 \pm 43$	0.92	$-10 \pm 41$	0.82	nnn
HD 66295   MS.BB.M.AP   O6X.D-0403   52310.214   600R   -635±66   1.04   15±43   0.66   dDD   HD 66318   MS.A0.M.AP   O6X.D-0403   52310.214   600R   6267±89   3.65   -1±38   0.78   DDD   HD 66318   MS.A0.M.AP   O72.D-0408   52679.271   600R   6267±89   3.65   -1±38   0.78   DDD   DD 65318   MS.A0.M.AP   O72.D-0408   52679.271   600R   -624±776   1.00   -1278±1017   1.13   nnn										nnn
HD 66318   MS:A0MAP   070.D-0352   \$2679.271   600R										nnn
BD66318   MS:AOMAP   068.D-0403   \$2310.214   600R   6267±89   3.65   -1±38   0.78   DDD   BCBS   CP   072.D-0089   \$2598.347   600R   648.0±9   5.57   12±31   0.78   DDD   BCBS   CP   072.D-0089   \$2598.347   600B   -29±4*776   1.00   -1278±1017   1.13   nnn   NGC 2546.258   MS:AS:AP   073.D-0488   \$3275.331   600B   -16±84   0.72   -148±55   0.74   nnn   NGC 2546.258   MS:AS:AP   074.D-0488   \$3400.301   600B   3±54   0.72   -148±55   0.74   nnn   NGC 2546.258   MS:AS:AP   074.D-0488   \$3400.301   600B   3±54   0.72   -148±55   0.74   nnn   NGC 2546.258   MS:AS:AP   073.D-0498   \$3275.331   600B   82±83   0.73   -55±79   0.68   nnn   CPD-37   1978   MS:B4   073.D-0498   \$3275.331   600B   82±83   0.73   -55±79   0.68   nnn   CPD-37   1978   MS:B4   074.D-0488   \$3400.301   600B   268±152   0.82   -292±140   0.70   nnn   NGC 2546.258   MS:B3   074.D-0488   \$3400.301   600B   268±152   0.82   -292±140   0.70   nnn   NGC 2546.258   MS:B3   074.D-0488   \$3400.301   600B   268±152   0.82   -292±140   0.70   nnn   NGC 2546.258   MS:B3   074.D-0488   \$3399.286   600B   -28±112   0.76   6±6108   0.70   nnn   NGC 2546.258   NGC 2546.										
BD 66318										
Fig. 18										
NGC 2546 258 MS.A8:AP 073.D-0498 53475.331 600B -164±84 0.79 -92±83 0.80 nm NGC 2546 258 MS.A8:AP 074.D-0488 53400.301 600B 79±57 0.77 -148±55 0.74 nm NS:B5 074.D-0488 53400.301 600B 79±57 0.77 -52±53 0.66 nm NS:B4 073.D-0498 53275.331 600B 82±83 0.73 -55±79 0.68 nm NS:B4 073.D-0498 53275.331 600B 82±83 0.73 -55±79 0.68 nm NS:B4 073.D-0498 53275.331 600B 82±83 0.73 -55±79 0.68 nm NS:B4 073.D-0498 53275.331 600B 268±152 0.82 -292±140 0.70 nm NS:B1 073.D-0498 53275.331 600B 268±152 0.82 -292±140 0.70 nm NS:B1 074.D-0488 0.3400.301 600B -268±152 0.82 -292±140 0.70 nm NS:B1 074.D-0488 0.3400.301 600B -268±152 0.82 -292±140 0.70 nm NS:B1 074.D-0488 0.3399.286 600B -103±62 0.76 6±108 0.70 nm NS:B1 074.D-0488 0.3399.286 600B -132±60 0.73 -64±60 0.74 nm NS:B1 074.D-0488 0.3399.286 600B -132±60 0.73 0.4±60 0.70 nm NS:B1 074.D-0488 0.3399.286 600B -132±60 0.73 0.0±61										
NGC 2546 258 MS:A8:AP										
NFS  195										
CPD=371978   MS:B4   073.D-0498   53275.331   600B   82±83   0.73   -55±79   0.68   nnn   CPD=371978   MS:B4   074.D-0488   53400.301   600B   10±72   0.70   -109±73   0.72   nnn   N751196   MS:B3   073.D-0498   53275.331   600B   268±152   0.82   -292±140   0.70   nnn   CPD=371978   MS:B3   074.D-0488   53400.301   600B   -28±112   0.76   6±108   0.70   nnn   CPD=374353   MS:B7   074.D-0488   53400.301   600B   -32±60   0.73   -64±60   0.74   nnn   CPD=374353   MS:B7   074.D-0488   53399.286   600B   -32±60   0.73   -64±60   0.74   nnn   CPD=371985   MS:B8.M   074.D-0488   53399.286   600B   -32±60   0.75   -095   30±103   1.02   nnn   CPD=371989   MS:A2   074.D-0488   53399.286   600B   -49±73   0.80   -105±71   0.77   nnn   CPD=371989   MS:A2   074.D-0488   53399.286   600B   -49±73   0.80   -105±71   0.77   nnn   0.78   0.78   0.79										
CPD=371978   MS:B4										
N75  196   MS:B3   073.D-0498   53275.331   600B   268±152   0.82   -292±140   0.70   nm   CD-37 4353   MS:B7   074.D-0488   53399.286   600B   -28±122   0.76   6±108   0.70   nm   CD-37 4353   MS:B8.M   074.D-0488   53399.286   600B   363±65   1.01   -66±54   0.96   DaD										
N75  196   MS:B3   O74.D-0488   53400.301   600B   -28±112   0.76   6±108   0.70   nnn   CD-37 43553   MS:B8.M   O74.D-0488   53399.286   600B   363±56   1.01   -68±54   0.96   DdD   D										
CD-37 43535   MS:B8 M   O74.D-0448   S3399.286   600B   -132±60   0.73   -64±60   0.74   nnn   CD-37 4355   MS:B8.M   O74.D-0488   S3399.286   600B   363±56   1.01   -68±54   0.96   DdD   Dd										
CD-374355   MS:B8.M   074.D-0488   53399.286   600B   363±56   1.01   -68±54   0.96   DdD   CPD-371989   MS:A2   074.D-0488   53399.286   600B   -49±73   0.80   -105±71   0.77   nnn   CPD-371989   MS:A2   074.D-0488   53399.286   600B   -49±73   0.80   -105±71   0.77   nnn   CPD-371989   MS:A2   075.D-0295   53454.077   1200g   106±68   0.93   246±68   0.93   nnn   CPD-371898   MS:A0   075.D-0295   53454.077   1200g   106±68   0.93   246±68   0.93   nnn   CPD-371899   MS:A0   073.D-0498   53275.370   600B   -38±44   0.64   -23±42   0.59   nnn   CPD-371899   MS:A0   073.D-0498   53275.370   600B   -38±44   0.64   -23±42   0.59   nnn   CPD-371899   MS:A0   073.D-0498   53275.370   600B   -59±44   0.66   -53±43   0.66   nnn   CPD-371899   072.D-0377   52989.350   600B   83±63   0.90   -19±59   0.78   nnn   CPD-371899   073.D-0498   53175.370   600B   708±8   1.03   -61±55   0.90   DDD   CPD-371899   073.D-0498   53175.979   600B   708±8   1.03   -61±55   0.90   DDD   CPD-371899   073.D-0498   53277.369   600B   453±54   0.93   54±53   0.90   DDD   CPD-371899   073.D-0498   53277.369   600B   45±59   0.93   54±53   0.90   DDD   CPD-371899   074.C-0442   53332.314   600B   196±58   0.86   -124±56   0.82   nnd   CPD-371899   074.C-0442   53332.314   600B   147±75   0.95   67±71   0.85   nnn   CPD-371899   074.C-0442   53332.314   600B   -47±44   0.94   1±43   0.89   nnd   CPD-371899   074.C-0442   53332.314   600B   -47±44   0.94   1±43   0.89   nnd   CPD-371899   074.D-0377   53002.116   600B   -47±44   0.94   1±45   0.89   nnd   CPD-371899   073.D-0466   53143.972   600B   50±67   0.84   13±68   0.89   nnn   CPD-4195   MS:B3:SPB   073.D-0466   53143.972   600B   37±74   0.92   -23±47   0.93   nnn   CPD-4195   MS:B3:SPB   073.D-0466   53143.972   600B   37±49   0.85   27±287   0.91   nnn   CPD-4195   MS:B3:SPB   073.D-0466   53143.972   600B   34±249   0.85   27±287   0.91   nnn   CPD-4195   MS:B3:SPB   073.D-0466   53143.972   600B   34±249   0.85   27±287   0.91   nnn   CPD-4195   MS:B3:SPB   073.D-0466   53143.										
HD 68695										
HD 68826   GS:B9:EB   075.D-0295   53454.077   1200g   106±68   0.93   246±68   0.93   nnn   HD 69003   MS:A0   073.D-0498   53275.370   600B   -38±44   0.64   -23±42   0.59   nnn   HD 69004   MS:B9:AP   073.D-0498   53275.370   600B   -38±44   0.66   -53±43   0.66   nnn   HD 69144   MS:B2:SPB   072.D-0377   52906.00B   600B   83±63   0.90   -19±90   0.78   nnn   HD 69144   MS:B2:SPB   078.D-0140   54061.342   600B   -1±65   0.98   18±63   0.92   nnn   HD 69144   MS:B3:SPB   073.D-0498   53275.370   600B   -1±65   0.98   18±63   0.92   nnn   HD 69164   MS:B8:MAP   073.D-0498   53275.379   600B   -1±65   0.98   18±63   0.92   nnn   HD 69067   MS:B8:MAP   073.D-0498   53277.369   600B   453±44   0.93   54±53   0.90   DDD   HD 71066   MS:A0:AP?   072.D-0377   53002.097   600B   56±55   0.90   45±59   0.87   nnn   HD 72106A   PM:A0:M   074.C-0442   53332.216   600B   147±75   0.95   67±71   0.85   nnn   HD 74169   MS:A1:AP   070.D-0352   52678.218   600B   -210±43   0.90   118±41   0.81   ndd   HD 74169   MS:A1:AP   070.D-0357   53002.11   600B   -80±67   0.84   13±68   0.89   nnn   HD 74195   MS:B3:SPB   072.D-0377   53002.116   600B   -62±59   0.91   41±58   0.89   nnn   HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   -72±47   0.92   -23±47   0.93   nnn   HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   -72±47   0.92   -23±47   0.93   nnn   HD 74195   MS:B3:SPB   075.D-0295   53455.080   223±132   1.04   252±124   0.92   nnn   HD 74195   MS:B3:SPB   075.D-0295   53455.080   223±132   1.04   252±124   0.92   nnn   HD 74195   MS:B3:SPB   075.D-0295   53455.080   223±132   1.04   252±124   0.99   nnn   HD 74195   MS:B3:SPB   075.D-0295   53454.107   1200g   -72±87   0.99   -102±99   0.91   nnn   HD 74195   MS:B3:SPB   075.D-0295   53454.107   1200g   -72±50   0.99   -102±99   0.91   nnn   HD 74195   MS:B3:SPB   075.D-0295   53454.107   1200g   -72±87   0.99   -102±99   0.91   nnn   HD 74195   MS:B3:SPB   075.D-0295   53454.107   1200g   -72±87   0.99   -102±99   0.91   nnn   HD 74560   MS:B3:SPB.SB	HD 68695	PM:A0	074.C-0442		600B	$-84 \pm 100$	0.95		1.02	nnn
GJ 299   MS:M4:HPM	CPD-37 1989	MS:A2	074.D-0488	53399.286	600B	$-49 \pm 73$	0.80	$-105 \pm 71$	0.77	nnn
HD 69003   MS:A0	HD 68826	GS:B9:EB	075.D-0295	53454.077	1200g	$106 \pm 68$		$246 \pm 68$	0.93	nnn
HD 69004   MS:B9:AP   073.D-0498   \$3275.370   600B   -59±44   0.66   -53±43   0.66   nnn   HD 69144   MS:B2:SPB   072.D-0377   52989.350   600B   83±63   0.90   -19±59   0.78   nnn   HD 69144   MS:B2:SPB   078.D-0140   54061.342   600B   -1±65   0.98   18±63   0.92   nnn   HD 69067   MS:B8:M.AP   073.D-0498   \$3315.979   600B   708±58   1.03   -61±55   0.90   DDD   HD 69067   MS:B8:M.AP   073.D-0498   \$3277.369   600B   453±54   0.93   54±53   0.90   DDD   HD 71066   MS:A0:AP?   072.D-0377   53002.097   600B   56±55   0.90   45±59   0.87   nnn   HD 72106A   PM:A0:M   074.C-0442   53332.296   600B   196±58   0.86   -124±56   0.82   nnd   HD 72106B   PM:A0:E   074.C-0442   53332.296   600B   147±75   0.95   67±71   0.85   nnn   HD 74169   MS:A1:AP   070.D-0352   52678.218   600B   -210±43   0.90   118±41   0.81   ndd   HD 74169   MS:A1:AP   272.D-5026   53066.195   600B   -147±44   0.94   1±43   0.89   nnd   HD 74105   MS:B3:SPB   072.D-0377   53002.116   600B   -62±59   0.91   41±58   0.89   nnn   HD 74195   MS:B3:SPB   073.D-0466   53138.972   600B   97±73   0.96   -194±70   0.87   nnn   HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   97±73   0.96   -194±70   0.87   nnn   HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   77±43   1.05   -5±40   0.91   nnn   HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -7±43   1.05   -5±40   0.91   nnn   HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -7±43   1.05   -5±40   0.91   nnn   HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -7±43   1.05   -5±40   0.91   nnn   HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -7±43   1.05   -5±40   0.91   nnn   HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -7±43   1.05   -5±40   0.91   nnn   HD 74196   MS:B3:SPB   075.D-0295   53455.080   1200g   -7±43   1.05   -5±40   0.91   nnn   HD 74196   MS:B3:SPB   075.D-0295   53454.07   1200g   -7±43   1.05   -5±40   0.91   nnn   HD 74196   MS:B3:SPB SB   075.D-0295   53455.080   1206   -150±60   0.95   -102±49   0.94   nnn   HD 74560   MS										-nn
HD 69144   MS:B2:SPB   072.D-0377   52989.350   600B   83±63   0.90   -19±59   0.78   nnn     HD 69144   MS:B2:SPB   078.D-0140   54061.342   600B   -1±65   0.98   18±63   0.92   nnn     HD 69067   MS:B8:M.AP   073.D-0498   53115.979   600B   708±58   1.03   -61±55   0.90   DDD     HD 69067   MS:B8:M.AP   073.D-0498   53277.369   600B   453±54   0.93   54±53   0.90   DDD     HD 71066   MS:A0:AP?   072.D-0377   53002.097   600B   56±55   0.90   45±59   0.87   nnn     HD 72106A   PM:A0:M   074.C-0442   53332.314   600B   196±58   0.86   -124±56   0.82   nnd     HD 72106B   PM:A0:E   074.C-0442   53332.314   600B   147±75   0.95   67±71   0.85   nnn     HD 74169   MS:A1:AP   070.D-0352   52678.218   600B   -210±43   0.90   118±41   0.81   ndd     HD 74169   MS:A1:AP   272.D-5026   53066.195   600B   -147±44   0.94   1±43   0.89   nnd     HD 74168   MS:B9:AP   072.D-0377   53002.111   600B   -80±67   0.84   13±68   0.89   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   97±73   0.96   -194±70   0.87   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   97±73   0.96   -194±70   0.87   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   97±73   0.96   -194±70   0.87   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   57±43   0.99   -102±49   0.94   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   223±132   1.04   252±124   0.92   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   223±132   1.04   252±124   0.92   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   232±132   1.04   252±124   0.92   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   23±132   1.04   252±124   0.92   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.973   600B   27±50   0.99   -102±49   0.94   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.974   600B   249±87   0.91   44±85   0.										nnn
HD 69144   MS:B2:SPB   078.D-0140   54061.342   600B   -1±65   0.98   18±63   0.92   nnn     HD 69067   MS:B8:M.AP   073.D-0498   53115.979   600B   708±58   1.03   -61±55   0.90   DDD     HD 71066   MS:A0:AP?   072.D-0377   53002.097   600B   56±55   0.90   45±59   0.87   nnn     HD 72106A   PM:A0:M   074.C-0442   53332.296   600B   16±58   0.86   -124±56   0.82   nnd     HD 72106B   PM:A0:E   074.C-0442   53332.314   600B   147±75   0.95   67±71   0.85   nnn     HD 74169   MS:A1:AP   070.D-0352   52678.218   600B   -210±43   0.90   118±41   0.81   ndd     HD 74169   MS:A1:AP   272.D-5026   53066.195   600B   -147±44   0.94   1±43   0.89   nnd     HD 74168   MS:B9:AP   072.D-0377   53002.111   600B   -80±67   0.84   13±68   0.89   nnn     HD 74195   MS:B3:SPB   073.D-0466   53138.972   600B   60±59   0.91   41±58   0.89   nnn     HD 74195   MS:B3:SPB   073.D-0466   53138.972   600B   160±55   1.01   -226±57   1.12   dnn     HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -7±43   1.05   -5±40   0.91   nnn     HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -7±43   1.05   -5±40   0.91   nnn     HD 74195   MS:B3:SPB   075.D-0295   53454.107   1200g   -21±50   0.99   -102±49   0.94   nnn     HD 74195   MS:B3:SPB   075.D-0295   53454.107   1200g   -21±50   0.99   -102±49   0.94   nnn     HD 74196   MS:B3:SPB   075.D-0295   53454.107   1200g   -21±50   0.99   -102±49   0.94   nnn     HD 74196   MS:B3:SPB   075.D-0295   53454.107   1200g   -21±50   0.99   -102±49   0.94   nnn     HD 74196   MS:B3:SPB   075.D-0295   53454.107   1200g   -21±50   0.99   -102±49   0.94   nnn     HD 74196   MS:B3:SPB   075.D-0295   53454.107   1200g   -21±50   0.99   -102±49   0.94   nnn     HD 74560   MS:B3:SPB   075.D-0295   53454.107   1200g   -21±50   0.99   -102±49   0.94   nnn     HD 74560   MS:B3:SPB.SB   075.D-0295   000   0										
HD 69067   MS:B8:M.AP   073.D-0498   53115.979   600B   708±58   1.03   -61±55   0.90   DDD     HD 69067   MS:B8:M.AP   073.D-0498   53277.369   600B   45±54   0.93   54±53   0.90   DDD     HD 71066   MS:A0:AP?   072.D-0377   53002.097   600B   56±55   0.90   45±59   0.87   nnn     HD 72106A   PM:A0:M   074.C-0442   53332.296   600B   196±58   0.86   -124±56   0.82   nnd     HD 72106B   PM:A0:E   074.C-0442   53332.314   600B   147±75   0.95   67±71   0.85   nnn     HD 74169   MS:A1:AP   070.D-0352   52678.218   600B   -210±43   0.90   118±41   0.81   ndd     HD 74169   MS:A1:AP   070.D-0352   52678.218   600B   -147±44   0.94   1±43   0.89   nnd     HD 74168   MS:B9:AP   072.D-0377   53002.110   600B   -80±67   0.84   13±68   0.89   nnn     HD 74195   MS:B3:SPB   073.D-0466   53138.972   600B   97±73   0.96   -194±70   0.87   nnn     HD 74195   MS:B3:SPB   073.D-0466   53138.972   600B   97±73   0.96   -194±70   0.87   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   97±73   0.96   -194±70   0.87   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   97±73   0.96   -194±70   0.87   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   57±47   0.92   -23±47   0.93   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   -77±47   0.92   -23±47   0.93   nnn     HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -7±43   1.05   -5±40   0.91   nnn     HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -7±43   1.05   -5±40   0.91   nnn     HD 74195   MS:B3:SPB   075.D-0295   53454.070   1200g   -21±50   0.99   -102±49   0.94   nnn     HD 74560   MS:B3:SPB   070.D-0352   52678.232   600B   -110±60   0.88   52±88   0.82   nnn     HD 74560   MS:B3:SPB.SB   073.D-0466   53143.986   600B   -150±60   1.05   -106±55   0.87   nnn     HD 74575   GS:B1:BCEP   078.D-0140   54108.341   600B   -74±56   0.88   -118±57   0.90   nnn     HD 74575   GS:B1:BCEP   078.D-0140   54408.341   600B   -150±60   1.05   -106±55   0.87   nnn     HD 75049   MS:A0:M.AP   080.D-0170   54483.108										
HD 69067   MS:B8:M.AP   073.D-0498   53277.369   600B   453 ± 54   0.93   54 ± 53   0.90   DDD     HD 71066   MS:A0:AP?   072.D-0377   53002.097   600B   56 ± 55   0.90   45 ± 59   0.87   nnn     HD 72106A   PM:A0:M   074.C-0442   53332.296   600B   196 ± 58   0.86   -124 ± 56   0.82   nnd     HD 72106B   PM:A0:E   074.C-0442   53332.314   600B   147 ± 75   0.95   67 ± 71   0.85   nnn     HD 74169   MS:A1:AP   070.D-0352   52678.218   600B   -210 ± 43   0.90   118 ± 41   0.81   ndd     HD 74169   MS:A1:AP   272.D-5026   53066.195   600B   -147 ± 44   0.94   1 ± 43   0.89   nnd     HD 74169   MS:B3:SPB   072.D-0377   53002.111   600B   -80 ± 67   0.84   13 ± 68   0.89   nnn     HD 74195   MS:B3:SPB   073.D-0466   53138.972   600B   -62 ± 59   0.91   41 ± 58   0.89   nnn     HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   160 ± 55   1.01   -226 ± 57   1.12   dnn     HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -7 ± 43   1.05   -5 ± 40   0.91   nnn     HD 74196   MS:B7:HEW   072.D-0377   52906.388   600B   -77 ± 47   0.92   -23 ± 47   0.93   nnn     HD 74195   MS:B3:SPB   075.D-0295   53454.107   1200g   -21 ± 50   0.99   -102 ± 49   0.94   nnn     HD 74196   MS:B7:HEW   070.D-0259   52608.319   600B   349 ± 249   0.85   279 ± 287   0.91   nn     HD 74560   MS:B3:SPB.SB   075.D-0466   53143.986   600B   -424 ± 87   0.91   44 ± 85   0.82   nnn     HD 74560   MS:B3:SPB.SB   075.D-0466   53143.986   600B   -424 ± 87   0.91   44 ± 85   0.82   nnn     HD 74560   MS:B3:SPB.SB   073.D-0466   53143.986   600B   -424 ± 87   0.91   44 ± 85   0.87   nnn     HD 74560   MS:B3:SPB.SB   073.D-0466   53143.986   600B   -424 ± 87   0.91   44 ± 85   0.87   nnn     HD 74560   MS:B3:SPB.SB   073.D-0466   5343.986   600B   -424 ± 87   0.91   44 ± 85   0.87   nnn     HD 74575   GS:B1:BCEP   078.D-0140   54108.347   600B   -241 ± 73   1.07   -14 ± 64   0.85   dnd     HD 75049   MS:A0:M.AP   080.D-0170   54483.108   600B   -9622 ± 82   3.22   -80 ± 39   0.75   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54483.203   6										
HD 71066   MS:A0:AP?   O72.D-0377   S3002.097   600B   56±55   0.90   45±59   0.87   nnn   Nn   Nn   Nn   Nn   Nn   Nn										
HD 72106A										
HD 72106B										
HD 74169   MS:A1:AP   070.D-0352   52678.218   600B   -210 ± 43   0.90   118 ± 41   0.81   ndd   HD 74169   MS:A1:AP   272.D-5026   53066.195   600B   -147 ± 44   0.94   1 ± 43   0.89   nnd   HD 74168   MS:B9:AP   072.D-0377   53002.111   600B   -80 ± 67   0.84   13 ± 68   0.89   nnn   HD 74195   MS:B3:SPB   072.D-0377   53002.112   600B   -62 ± 59   0.91   41 ± 58   0.89   nnn   HD 74195   MS:B3:SPB   073.D-0466   53138.972   600B   97 ± 73   0.96   -194 ± 70   0.87   nnn   HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   97 ± 73   0.96   -194 ± 70   0.87   nnn   HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -7 ± 43   1.05   -5 ± 40   0.91   nnn   HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -77 ± 47   0.92   -23 ± 47   0.93   nnn   HD 74195   MS:B3:SPB   078.D-0140   54108.330   600B   -77 ± 47   0.92   -23 ± 47   0.93   nnn   HD 74196   MS:B7:HEW   072.D-0377   52906.388   600B   223 ± 132   1.04   252 ± 124   0.92   nnn   HD 74195   MS:B3:SPB   075.D-0295   53454.107   1200g   -21 ± 50   0.99   -102 ± 49   0.94   nnn   WD 0839-327   WD:DA6   070.D-0259   52668.319   600B   349 ± 249   0.85   279 ± 287   0.91   n-n   HD 74506   MS:B3:SPB.SB   073.D-0466   53143.986   600B   -110 ± 60   0.88   52 ± 58   0.82   nnn   HD 74560   MS:B3:SPB.SB   073.D-0466   53143.986   600B   -150 ± 60   1.05   -106 ± 55   0.87   nnn   HD 74575   GS:B1:BCEP   078.D-0140   54108.341   600B   -241 ± 73   1.07   -14 ± 64   0.85   dnd   HD 75049   MS:A0:M.AP   080.D-0170   54482.266   600B   -9622 ± 82   3.22   -80 ± 39   0.75   DDD   HD 75049   MS:A0:M.AP   080.D-0170   54482.266   600B   -3762 ± 72   2.54   69 ± 38   0.73   DDD   HD 75049   MS:A0:M.AP   080.D-0170   54452.6063   600B   -3762 ± 72   2.54   69 ± 38   0.73   DDD   HD 75049   MS:A0:M.AP   080.D-0170   5452.6063   600B   -3762 ± 72   2.54   69 ± 38   0.73   DDD										
HD 74169 MS:A1:AP 272.D-5026 53066.195 600B -147 ± 44 0.94 1 ± 43 0.89 nnd HD 74168 MS:B9:AP 072.D-0377 53002.111 600B -80 ± 67 0.84 13 ± 68 0.89 nnn HD 74195 MS:B3:SPB 072.D-0377 53002.126 600B -62 ± 59 0.91 41 ± 58 0.89 nnn HD 74195 MS:B3:SPB 073.D-0466 53138.972 600B 97 ± 73 0.96 -194 ± 70 0.87 nnn HD 74195 MS:B3:SPB 073.D-0466 53143.972 600B 160 ± 55 1.01 -226 ± 57 1.12 dnn HD 74195 MS:B3:SPB 075.D-0295 53455.080 1200g -7 ± 43 1.05 -5 ± 40 0.91 nnn HD 74195 MS:B3:SPB 078.D-0140 54108.330 600B -77 ± 47 0.92 -23 ± 47 0.93 nnn HD 74196 MS:B7:HEW 072.D-0377 52906.388 600B 223 ± 132 1.04 252 ± 124 0.92 nnn HD 74195 MS:B3:SPB 075.D-0295 53454.107 1200g -21 ± 50 0.99 -102 ± 49 0.94 nnn WD 0839-327 WD:DA6 070.D-0259 52608.319 600B 349 ± 249 0.85 279 ± 287 0.91 n-n HD 74535 MS:B9:AP 070.D-0352 52678.232 600B -110 ± 60 0.88 52 ± 58 0.82 nnn HD 74560 MS:B3:SPB.SB 073.D-0466 53143.986 600B -150 ± 60 1.05 -106 ± 55 0.87 nnn HD 74560 MS:B3:SPB.SB 073.D-0466 53143.986 600B -87 ± 56 0.88 -118 ± 57 0.90 nnn HD 74575 GS:B1:BCEP 078.D-0140 54108.347 600B -87 ± 56 0.88 -118 ± 57 0.90 nnn HD 74575 GS:B1:BCEP 078.D-0140 54108.347 600B -241 ± 73 1.07 -14 ± 64 0.85 dnd HD 75049 MS:A0:M.AP 080.D-0170 54482.266 600B -748 ± 68 2.45 -21 ± 36 0.72 DdD HD 75049 MS:A0:M.AP 080.D-0170 54483.108 600B -748 ± 68 2.45 -21 ± 36 0.72 DdD HD 75049 MS:A0:M.AP 080.D-0170 54483.203 600B -1168 ± 64 2.89 -39 ± 32 0.75 DDD HD 75049 MS:A0:M.AP 080.D-0170 54483.203 600B -1168 ± 64 2.89 -39 ± 32 0.75 DDD HD 75049 MS:A0:M.AP 080.D-0170 54483.203 600B -1168 ± 64 2.89 -39 ± 32 0.75 DDD HD 75049 MS:A0:M.AP 080.D-0170 54483.108 600B -9622 ± 82 3.22 -80 ± 39 0.75 DDD HD 75049 MS:A0:M.AP 080.D-0170 54483.108 600B -3762 ± 72 2.54 69 ± 38 0.73 DDD										
HD 74168 MS:B9:AP 072.D-0377 53002.111 600B -80 ±67 0.84 13 ±68 0.89 nnn HD 74195 MS:B3:SPB 072.D-0377 53002.126 600B -62 ±59 0.91 41 ±58 0.89 nnn HD 74195 MS:B3:SPB 073.D-0466 53138.972 600B 97 ±73 0.96 -194 ±70 0.87 nnn HD 74195 MS:B3:SPB 073.D-0466 53143.972 600B 97 ±73 0.96 -194 ±70 0.87 nnn HD 74195 MS:B3:SPB 075.D-0466 53143.972 600B 160 ±55 1.01 -226 ±57 1.12 dnn HD 74195 MS:B3:SPB 075.D-0295 53455.080 1200g -7 ±43 1.05 -5 ±40 0.91 nnn HD 74195 MS:B3:SPB 075.D-0295 53455.080 1200g -7 ±47 0.92 -23 ±47 0.93 nnn HD 74196 MS:B7:HEW 072.D-0377 52906.388 600B 223 ±132 1.04 252 ±124 0.92 nnn HD 74195 MS:B3:SPB 075.D-0295 53454.107 1200g -21 ±50 0.99 -102 ±49 0.94 nnn HD 74195 MS:B3:SPB 070.D-0255 52608.319 600B 349 ±249 0.85 279 ±287 0.91 n-n HD 74535 MS:B9:AP 070.D-0352 52678.232 600B -110 ±60 0.88 52 ±58 0.82 nnn HD 74560 MS:B3:SPB.SB 072.D-0377 53002.141 600B 249 ±87 0.91 44 ±85 0.87 dnn HD 74560 MS:B3:SPB.SB 073.D-0466 53143.986 600B -150 ±60 1.05 -106 ±55 0.87 nnn HD 74575 GS:B1:BCEP 078.D-0140 54108.347 600B -87 ±56 0.88 -118 ±57 0.90 nnn HD 74575 GS:B1:BCEP 078.D-0140 54108.347 600B -241 ±73 1.07 -14 ±64 0.85 dnd HD 75049 MS:A0:M.AP 080.D-0170 54464.359 600B -9240 ±104 1.54 62 ±75 0.82 DDD HD 75049 MS:A0:M.AP 080.D-0170 54483.108 600B -9240 ±104 1.54 62 ±75 0.82 DDD HD 75049 MS:A0:M.AP 080.D-0170 54483.108 600B -3762 ±72 2.54 69 ±38 0.73 DDD HD 75049 MS:A0:M.AP 080.D-0170 54483.108 600B -3762 ±72 2.54 69 ±38 0.73 DDD										
HD 74195   MS:B3:SPB   073.D-0466   53138.972   600B   97 ± 73   0.96   -194 ± 70   0.87   nnn   HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   160 ± 55   1.01   -226 ± 57   1.12   dnn   HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -7 ± 43   1.05   -5 ± 40   0.91   nnn   HD 74195   MS:B3:SPB   078.D-0140   54108.330   600B   -77 ± 47   0.92   -23 ± 47   0.93   nnn   HD 74196   MS:B7:HEW   072.D-0377   52906.388   600B   223 ± 132   1.04   252 ± 124   0.92   nnn   HD 74195   MS:B3:SPB   075.D-0295   53454.107   1200g   -21 ± 50   0.99   -102 ± 49   0.94   nnn   WD 0839-327   WD:DA6   070.D-0259   52608.319   600B   349 ± 249   0.85   279 ± 287   0.91   n-n   HD 74535   MS:B9:AP   070.D-0352   52678.232   600B   -110 ± 60   0.88   52 ± 58   0.82   nnn   HD 74560   MS:B3:SPB.SB   072.D-0377   53002.141   600B   249 ± 87   0.91   44 ± 85   0.87   dnn   HD 74560   MS:B3:SPB.SB   073.D-0466   53143.986   600B   -150 ± 60   1.05   -106 ± 55   0.87   nnn   HD 74575   GS:B1:BCEP   078.D-0140   54082.341   600B   -87 ± 56   0.88   -118 ± 57   0.90   nnn   HD 74575   GS:B1:BCEP   078.D-0140   54082.341   600B   -241 ± 73   1.07   -14 ± 64   0.85   dnd   HD 75049   MS:A0:M.AP   080.D-0170   54482.266   600B   -748 ± 68   2.45   -21 ± 36   0.72   DdD   HD 75049   MS:A0:M.AP   080.D-0170   54483.108   600B   -3762 ± 72   2.54   69 ± 38   0.73   DDD   HD 75049   MS:A0:M.AP   080.D-0170   54483.108   600B   -3762 ± 72   2.54   69 ± 38   0.73   DDD				53002.111			0.84			
HD 74195   MS:B3:SPB   073.D-0466   53143.972   600B   160±55   1.01   -226±57   1.12   dnn     HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -7±43   1.05   -5±40   0.91   nnn     HD 74195   MS:B3:SPB   078.D-0140   54108.330   600B   -77±47   0.92   -23±47   0.93   nnn     HD 74196   MS:B7:HEW   072.D-0377   52906.388   600B   223±132   1.04   252±124   0.92   nnn     HD 74195   MS:B3:SPB   075.D-0295   53454.107   1200g   -21±50   0.99   -102±49   0.94   nnn     WD 0839-327   WD:DA6   070.D-0259   52608.319   600B   349±249   0.85   279±287   0.91   n-n     HD 74535   MS:B9:AP   070.D-0352   52678.232   600B   -110±60   0.88   52±58   0.82   nnn     HD 74560   MS:B3:SPB.SB   072.D-0377   53002.141   600B   249±87   0.91   44±85   0.87   dnn     HD 74560   MS:B3:SPB.SB   073.D-0466   53143.986   600B   -150±60   1.05   -106±55   0.87   nnn     HD 74575   GS:B1:BCEP   078.D-0140   54108.347   600B   -87±56   0.88   -118±57   0.90   nnn     HD 74575   GS:B1:BCEP   078.D-0140   54108.341   600B   -130±64   0.90   -171±67   1.00   nnn     HD 75049   MS:A0:M.AP   080.D-0170   54464.359   600B   -748±68   2.45   -21±36   0.72   DdD     HD 75049   MS:A0:M.AP   080.D-0170   54482.266   600B   -9240±104   1.54   62±75   0.82   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54483.108   600B   -9622±82   3.22   -80±39   0.75   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54493.203   600B   -3762±72   2.54   69±38   0.73   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54493.203   600B   -3762±72   2.54   69±38   0.73   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54450.231   600B   -3762±72   2.54   69±38   0.73   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54450.231   600B   -3762±72   2.54   69±38   0.73   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54450.231   600B   -3762±72   2.54   69±38   0.73   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54526.063   600B   -3762±72   2.54   69±38   0.73   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54526.063   600B   -3762±72   2.54   69±38   0.73   DDD     HD 75049	HD 74195	MS:B3:SPB	072.D-0377	53002.126	600B	$-62 \pm 59$	0.91	$41 \pm 58$	0.89	nnn
HD 74195   MS:B3:SPB   075.D-0295   53455.080   1200g   -7 ± 43   1.05   -5 ± 40   0.91   nnn     HD 74195   MS:B3:SPB   078.D-0140   54108.330   600B   -77 ± 47   0.92   -23 ± 47   0.93   nnn     HD 74196   MS:B7:HEW   072.D-0377   52906.388   600B   223 ± 132   1.04   252 ± 124   0.92   nnn     HD 74195   MS:B3:SPB   075.D-0295   53454.107   1200g   -21 ± 50   0.99   -102 ± 49   0.94   nnn     WD 0839-327   WD:DA6   070.D-0259   52608.319   600B   349 ± 249   0.85   279 ± 287   0.91   n-n     HD 74535   MS:B9:AP   070.D-0352   52678.232   600B   -110 ± 60   0.88   52 ± 58   0.82   nnn     HD 74560   MS:B3:SPB.SB   072.D-0377   53002.141   600B   249 ± 87   0.91   44 ± 85   0.87   dnn     HD 74560   MS:B3:SPB.SB   073.D-0466   53143.986   600B   -150 ± 60   1.05   -106 ± 55   0.87   nnn     HD 74560   MS:B3:SPB.SB   078.D-0140   54108.347   600B   -87 ± 56   0.88   -118 ± 57   0.90   nnn     HD 74575   GS:B1:BCEP   078.D-0140   54082.341   600B   -130 ± 64   0.90   -171 ± 67   1.00   nnn     HD 74575   GS:B1:BCEP   078.D-0140   54082.341   600B   -241 ± 73   1.07   -14 ± 64   0.85   dnd     HD 75049   MS:A0:M.AP   080.D-0170   54464.359   600B   -748 ± 68   2.45   -21 ± 36   0.72   DdD     HD 75049   MS:A0:M.AP   080.D-0170   54483.108   600B   -9240 ± 104   1.54   62 ± 75   0.82   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54493.203   600B   -1168 ± 64   2.89   -39 ± 32   0.75   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54493.203   600B   -3762 ± 72   2.54   69 ± 38   0.73   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54526.063   600B   -3762 ± 72   2.54   69 ± 38   0.73   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54526.063   600B   -3762 ± 72   2.54   69 ± 38   0.73   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54526.063   600B   -3762 ± 72   2.54   69 ± 38   0.73   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54526.063   600B   -3762 ± 72   2.54   69 ± 38   0.73   DDD     HD 75049   MS:A0:M.AP   080.D-0170   54526.063   600B   -3762 ± 72   2.54   69 ± 38   0.73   DDD     HD 75049   MS:A0:M.AP	HD 74195	MS:B3:SPB	073.D-0466	53138.972	600B	$97 \pm 73$	0.96	$-194 \pm 70$	0.87	nnn
HD 74195 MS:B3:SPB 078.D-0140 54108.330 600B -777 ± 47 0.92 -23 ± 47 0.93 nnn HD 74196 MS:B7:HEW 072.D-0377 52906.388 600B 223 ± 132 1.04 252 ± 124 0.92 nnn HD 74195 MS:B3:SPB 075.D-0295 53454.107 1200g -21 ± 50 0.99 -102 ± 49 0.94 nnn WD 0839-327 WD:DA6 070.D-0259 52608.319 600B 349 ± 249 0.85 279 ± 287 0.91 n-n HD 74535 MS:B9:AP 070.D-0352 52678.232 600B -110 ± 60 0.88 52 ± 58 0.82 nnn HD 74560 MS:B3:SPB.SB 072.D-0377 53002.141 600B 249 ± 87 0.91 44 ± 85 0.87 dnn HD 74560 MS:B3:SPB.SB 073.D-0466 53143.896 600B -150 ± 60 1.05 -106 ± 55 0.87 nnn HD 74560 MS:B3:SPB.SB 078.D-0140 54108.347 600B -87 ± 56 0.88 -118 ± 57 0.90 nnn HD 74575 GS:B1:BCEP 078.D-0140 54082.341 600B -241 ± 73 1.07 -14 ± 64 0.85 dnd HD 75049 MS:A0:M.AP 080.D-0170 54464.359 600B -748 ± 68 2.45 -21 ± 36 0.72 DdD HD 75049 MS:A0:M.AP 080.D-0170 54482.266 600B -9240 ± 104 1.54 62 ± 75 0.82 DDD HD 75049 MS:A0:M.AP 080.D-0170 54483.108 600B -9622 ± 82 3.22 -80 ± 39 0.75 DDD HD 75049 MS:A0:M.AP 080.D-0170 54483.108 600B -9622 ± 82 3.22 -80 ± 39 0.75 DDD HD 75049 MS:A0:M.AP 080.D-0170 54483.108 600B -166 ± 66 2.70 68 ± 35 0.77 DDD HD 75049 MS:A0:M.AP 080.D-0170 54481.08 600B -4666 ± 66 2.70 68 ± 35 0.77 DDD HD 75049 MS:A0:M.AP 080.D-0170 544516.231 600B -4666 ± 66 2.70 68 ± 35 0.77 DDD HD 75049 MS:A0:M.AP 080.D-0170 54516.231 600B -4666 ± 66 2.70 68 ± 35 0.77 DDD HD 75049 MS:A0:M.AP 080.D-0170 54516.231 600B -3762 ± 72 2.54 69 ± 38 0.73 DDD	HD 74195									dnn
HD 74196         MS:B7:HEW         072.D-0377         52906.388         600B         223±132         1.04         252±124         0.92         nnn           HD 74195         MS:B3:SPB         075.D-0295         53454.107         1200g         -21±50         0.99         -102±49         0.94         nnn           WD 0839-327         WD:DA6         070.D-0259         52608.319         600B         349±249         0.85         279±287         0.91         n-n           HD 74535         MS:B9:AP         070.D-0352         52678.232         600B         -110±60         0.88         52±58         0.82         nnn           HD 74560         MS:B3:SPB.SB         072.D-0377         53002.141         600B         249±87         0.91         44±85         0.87         dnn           HD 74560         MS:B3:SPB.SB         073.D-0466         53143.986         600B         -150±60         1.05         -106±55         0.87         nnn           HD 74575         GS:B1:BCEP         078.D-0140         54108.347         600B         -87±56         0.88         -118±57         0.90         nnn           HD 75049         MS:A0:M.AP         080.D-0170         54464.359         600B         -748±68         2.45         <										nnn
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										nnn
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						$-9622 \pm 82$				
HD 75049 MS:A0:M.AP 080.D-0170 54526.063 600B $-3762 \pm 72$ 2.54 $69 \pm 38$ 0.73 DDD										
HD 75049 MS:A0:M.AP 080.D-0170 54527.079 600B -10349 ± 83 3.63 -33 ± 37 0.74 DDD										
	HD 75049	MS:A0:M.AP	080.D-0170	54527.079	600B	$-10349 \pm 83$	3.63	$-33 \pm 37$	0.74	DDD

Table 5. continued.

Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
HD 75049	MS:A0:M.AP	080.D-0170	54532.221	600B	$-5978 \pm 78$	1.76	$12\pm51$	0.78	DDD
HD 75049	MS:A0:M.AP	080.D-0170	54539.269	600B	$-10249 \pm 89$	2.66	$92 \pm 47$	0.77	DDD
HD 75049	MS:A0:M.AP	080.D-0170	54543.073	600B	$-9645 \pm 84$	3.34	$25 \pm 39$	0.74	DDD
HD 75049	MS:A0:M.AP	080.D-0170	54546.020	600B	$-2016 \pm 75$	2.06	$6 \pm 45$	0.77	DDD
HD 75049	MS:A0:M.AP	080.D-0170	54555.029	600B	$-8661 \pm 78$	3.83	$-56 \pm 34$	0.75	DDD
HD 75049	MS:A0:M.AP	080.D-0170	54557.117	600B	$-1979 \pm 66$	2.78	$14 \pm 35$	0.78	DDD
HD 75239	MS:B9:AP	074.D-0488	53399.342	600B	$-36 \pm 75$	0.86	$-139 \pm 78$	0.95	nnn
NLTT 20389	WD:DC:HPM	080.D-0521	54485.193	600B					_
HD 75989	MS:B9:AP	072.D-0377	52992.341	600B	$-337 \pm 154$	0.89	$120 \pm 158$	0.93	nnn
HD 75989	MS:B9:AP	072.D-0377	53004.284	600B	$-175 \pm 72$	0.81	$34 \pm 78$	0.80	nnn
HD 76534	PM:B2:E	072.C-0447	53062.222	600B	$-32 \pm 54$	1.08	$-60 \pm 53$	1.05	nnn
HD 76534	PM:B2:E	072.C-0447	53063.262	600B	$84 \pm 49$	0.94	$76 \pm 50$	1.04	nnn
HD 76431 WD 0859-039	SD:B	072.D-0290 070.D-0259	53058.255	600B 600B	$55 \pm 74$	0.91	$37 \pm 73$	0.85	nnn
WD 0859-039 WD 0859-039	WD:DA2 WD:DA2	070.D-0239 070.D-0259	52674.227 52696.219	600B	$-106 \pm 790$ $-1452 \pm 739$	1.16 1.13	$-836 \pm 770$ $-49 \pm 688$	1.11 0.97	n-n n-n
Ve 6-23	PM:OB:LPS	060.A-9203	51880.381	600B	-1432 ± 739	1.13	-49 ± 000	0.97	
Ve 6-23	PM:OB:LPS	060.A-9203	54177.162	300V					
Ve 6-23	PM:OB:LPS	060.A-9203	54176.224	300I					
Ve 6-23	PM:OB:LPS	060.A-9203	53863.957	600B					
Ve 6-23	PM:OB:LPS	060.A-9203	54176.055	300I					
Ve 6-23	PM:OB:LPS	073.D-0322	53147.973	300V					
Ve 6-23	PM:OB:LPS	082.D-0695	54830.382	300V					
HD 79351	MS:B2:E	075.D-0507	53455.095	1200g	$-196 \pm 167$	2.06	$-216 \pm 199$	1.99	ndn
PG 0909+276	SD:B	072.D-0290	53058.139	600B	$66 \pm 179$	1.03	$-132 \pm 215$	1.10	nnn
SZ Hya	MS:A:RR	082.D-0342	54781.361	1200B	$118 \pm 51$	1.16	$62 \pm 46$	1.00	nnn
HD 80316	MS:A3:AP	072.D-0377	52992.357	600B	$-249 \pm 89$	0.86	$-162 \pm 91$	0.91	nnn
NLTT 21844	WD:DA7:HPM	080.D-0521	54526.087	600B	$-1343 \pm 2863$	0.76			n-n
HD 298537	MS:A8	074.D-0488	53400.324	600B	$-373 \pm 165$	0.71	$139 \pm 160$	0.66	nnn
HD 83002	MS:B9:AP	074.D-0488	53400.324	600B	$-24 \pm 58$	0.67	$-98 \pm 56$	0.63	nnn
HD 298536	MS:A0	074.D-0488	53400.324	600B	$17 \pm 157$	0.76	$-71 \pm 152$	0.71	nnn
HD 83368	MS:A8:M.AP.ROAP	069.D-0210	52383.036	600B	$1002 \pm 29$	12.11	$-3 \pm 9$	1.19	DDD
HD 83368	MS:A8:M.AP.ROAP	069.D-0210	52383.107	600R	$963 \pm 56$	1.92	$57 \pm 45$	1.01	nDD
WD 0935-371A	WD:DA6	082.D-0736	54786.285	600B	1045 . 77	0.07	16 . 72	0.05	
HD 83625	MS:A0:M.AP	072.D-0377	53008.323	600B	$-1245 \pm 77$	0.97	$16 \pm 73$	0.85	DDD
HD 84041	MS:A5:M.AP	072.D-0377	53002.170	600B	$640 \pm 52$	1.03	$-69 \pm 49$	0.92	DDD
HD 85567 HD 85567	PM:B2:E PM:B5:E	072.C-0447 081.C-0410	53064.229 54609.012	600B 600B	$-427 \pm 209$ $-223 \pm 102$	0.78 0.78	$114 \pm 219$ $-10 \pm 102$	0.84 0.80	n-n
LS 1362	CP	072.D-0089	52989.309	600B	$-223 \pm 102$ $-107 \pm 384$	0.78	$-10 \pm 102$ $-273 \pm 501$	0.80	nnn
HD 85953	GS:B2:SPB	072.D-0089 072.D-0377	53002.152	600B	$-107 \pm 384$ $48 \pm 52$	0.86	$-273 \pm 301$ $23 \pm 52$	0.99	nnn nnn
HD 85953	GS:B2:SPB	073.D-0466	53152.971	600B	$159 \pm 51$	0.88	$45 \pm 65$	0.96	ndd
HD 85953	GS:B2:SPB	075.D-0295	53454.139	1200g	$-57 \pm 26$	1.06	$19 \pm 24$	0.91	nnn
HD 85953	GS:B2:SPB	075.D-0295	53455.113	1200g	$-7 \pm 29$	0.94	$65 \pm 34$	0.90	nnn
HD 85953	GS:B2:SPB	078.D-0140	54156.097	600B	$13 \pm 33$	0.96	$24 \pm 32$	0.92	nnn
HD 86181	MS:F0:M.AP	072.D-0377	53002.193	600B	$536 \pm 58$	1.30	$75 \pm 52$	1.03	DDD
HD 86199	MS:B9:M.AP	072.D-0377	53003.345	600B	$-800 \pm 72$	0.96	$-43 \pm 68$	0.85	DDD
WD 0958-073	SD:B	065.H-0293	51729.991	150I					
HD 87241	MS:B9:AP	073.D-0498	53134.080	600B	$-7 \pm 56$	0.96	$-21 \pm 57$	0.96	nnn
HD 87240	MS:B9:AP	070.D-0352	52678.302	600B	$-254 \pm 43$	0.66	$-45 \pm 43$	0.66	DdD
HD 87266	MS:B3	070.D-0352	52678.265	600B	$20 \pm 29$	0.74	$-1 \pm 27$	0.66	nnn
NGC 3114 L54	MS:B9	070.D-0352	52678.302	600B	$-108 \pm 73$	0.70	$67 \pm 72$	0.67	nnn
CPD-59 1698	MS:A1	070.D-0352	52678.265	600B	$-9 \pm 101$	0.71	$-129 \pm 103$	0.75	nnn
CPD-59 1700	MS:A3	070.D-0352	52678.302	600B	$265 \pm 116$	0.70	$85 \pm 118$	0.71	nnn
CPD-59 1703	MS:A0	070.D-0352	52678.265	600B	$-117 \pm 87$	0.67	$19 \pm 84$	0.65	nnn
HD 304841	MS:B8:M.AP	070.D-0352	52678.265	600B	$-339 \pm 63$	0.79	$-170 \pm 58$	0.68	ddD
NGC 3114 AR109 HD 304842	MS:A0	070.D-0352	52678.265	600B 600B	$-2634 \pm 562$ $347 \pm 91$	1.13	$1980 \pm 594$	1.26	dnd
HD 304842 HD 87405	MS:B9:AP MS:B9:AP	070.D-0352 070.D-0352	52678.265 52678.265	600B	$-66 \pm 33$	1.10 0.73	$486 \pm 90$ $2 \pm 31$	1.02 0.67	dnd
HD 87403 HD 87403	PM:A1	070.D-0332 074.C-0442	53331.339	600B	$-00 \pm 33$ $-24 \pm 43$	0.73	$12 \pm 40$	0.80	nnn nnn
HD 87752	MS:B9:HGMN	074.C-0442 072.D-0377	53008.304	600B	$-24 \pm 43$ $35 \pm 99$	0.89	$-90 \pm 98$	0.88	nnn
HD 88158	MS:B8:M.AP	072.D-0377	53008.304	600B	$320 \pm 67$	0.90	$1 \pm 66$	0.88	ndd
HD 88385	MS:A0:M.AP	072.D-0377	53010.181	600B	$-1160 \pm 55$	1.28	$-26 \pm 43$	0.78	DDD
HD 88661	MS:B2:P.E	077.D-0406	53889.996	600B	$112 \pm 114$	0.95	$-164 \pm 118$	0.98	nnn
WZ Hya	MS:A:RR	082.D-0342	54782.355	1200B	$83 \pm 45$	1.41	$-78 \pm 41$	1.20	ndn
HD 89103	MS:B9:M.AP	072.D-0377	53010.202	600B	$-2136 \pm 70$	1.14	$78 \pm 62$	0.91	DDD
HD 89385	MS:B9:AP	072.D-0377	53010.218	600B	$-93 \pm 66$	1.01	$-91 \pm 65$	0.98	nnn
HD 89856	??:B9	068.D-0403	52309.389	600R	$-131 \pm 88$	0.81	$-32 \pm 82$	0.74	nnn
HD 298051	MS:A1	068.D-0403	52309.389	600R	$-347 \pm 144$	0.71	$6 \pm 139$	0.66	nnn

Table 5. continued.

Star 10:21:01 -51:53:27	Classification UNCLASSIFIED	Prog. ID 068.D-0403	MJD 52309.389	grism 600R	$\langle B_z \rangle$ (G) 893 ± 427	$\frac{\chi^2/\nu}{1.13}$	$\frac{\langle N_z \rangle \text{ (G)}}{27 \pm 395}$	$\frac{\chi^2/\nu}{0.96}$	HmT
10:21:01 – 51:35:27	UNCLASSIFIED	068.D-0403	52310.359	600R	$-2354 \pm 765$	1.13	$27 \pm 393$ $1166 \pm 794$	2.14	nnn ndd
HD 89901	GS:B8	068.D-0403	52310.359	600R	$-2334 \pm 703$ $40 \pm 117$	0.93	$-79 \pm 107$	0.78	nnn
HD 89900	MS:A0	068.D-0403	52310.359	600R	$\frac{40 \pm 117}{25 \pm 98}$	0.80	$-79 \pm 107$ 61 ± 95	0.76	nnn
10:21:16 -51:51:32	UNCLASSIFIED	068.D-0403	52309.389	600R	23 ± 70	0.00	01 ± 75	0.70	
CPD-51 3235	UNCLASSIFIED	068.D-0403	52309.389	600R	$-110 \pm 177$	0.69	$-10 \pm 178$	0.69	nnn
HD 89915	MS:B9	068.D-0403	52310.359	600R	$-180 \pm 103$	0.86	$9 \pm 96$	0.74	nnn
NGC 3228 SC15	UNCLASSIFIED	068.D-0403	52309.389	600R	$-348 \pm 319$	0.98	$-48 \pm 329$	1.05	nnn
HD 298047	MS:B9	068.D-0403	52310.359	600R	$69 \pm 150$	0.92	$18 \pm 138$	0.89	nnn
HD 89922	MS:A4	068.D-0403	52309.389	600R	$-38 \pm 86$	0.89	$13 \pm 76$	0.70	nnn
HD 89938	??:A	068.D-0403	52310.359	600R	$-21 \pm 141$	0.96	$17 \pm 135$	0.87	nnn
HD 89937	??:B6	068.D-0403	52310.359	600R	$160 \pm 139$	0.83	$-80 \pm 133$	0.76	nnn
HD 89956	MS:B9	068.D-0403	52310.389	600R	$225 \pm 563$	3.73	$-41 \pm 501$	2.95	nnn
10:21:38 -51:41:44	UNCLASSIFIED	068.D-0403	52310.359	600R	$-879 \pm 434$	1.62	$400 \pm 445$	1.68	nnn
CPD-51 3249	MS:A8	070.D-0352	52679.343	600B	$-37 \pm 113$	0.75	$185 \pm 115$	0.75	nnn
HD 298053	MS:A3:AM	070.D-0352	52679.343	600B	$77 \pm 64$	0.69	$-40 \pm 66$	0.73	nnn
HD 298045	??:M3	070.D-0352	52679.343	600B	$208 \pm 38$	1.01	$19 \pm 29$	0.60	-DD
10:21:57 –51:49:06	??:K	070.D-0352	52679.343	600B	$255 \pm 120$	0.83	$71 \pm 113$	0.72	-nn
HD 298054	??:G0	070.D-0352 071.D-0308	52679.343 52824.019	600B 600B	$34 \pm 18$ $242 \pm 130$	0.91 1.14	$-41 \pm 16$	0.72 1.19	-nn
HD 90264 HD 91375	MS:B8 MS:A2	071.D-0308 073.D-0464	53116.028	600B	$-65 \pm 47$	1.14	$127 \pm 133$ $17 \pm 40$	0.95	nnn nnn
HD 91239	MS:B9:AP	073.D-0464	53118.059	600B	$-0.3 \pm 47$ $-134 \pm 59$	0.94	$17 \pm 40$ $22 \pm 58$	0.93	nnn
HD 91465	MS:B4:E	077.D-0406	53890.044	600B	$-134 \pm 39$ $179 \pm 109$	1.45	$194 \pm 106$	1.37	nnn
CD-34 6792	MS:F:HPM	082.D-0695	54830.376	300V	$-763 \pm 1187$	0.86	171 ± 100	1.57	nnn
CD-34 6792	MS:F:HPM	082.D-0695	54831.383	300V	$1189 \pm 1027$	0.80			nnn
HD 92106	MS:A0:AP	073.D-0464	53118.080	600B	$-128 \pm 66$	1.04	$-84 \pm 64$	0.97	nnn
HD 92106	MS:A0:AP	072.D-0377	53010.239	600B	$32 \pm 76$	0.94	$196 \pm 77$	0.95	nnn
HD 92190	MS:B8	074.D-0488	53400.386	600B	$-15 \pm 58$	0.68	$-49 \pm 56$	0.64	nnn
HD 303107	MS:A0	074.D-0488	53400.386	600B	$-170 \pm 107$	0.66	$-33 \pm 105$	0.64	nnn
HD 92287	MS:B3:SPB	072.D-0377	53008.352	600B	$-26 \pm 57$	0.92	$-4 \pm 55$	0.85	nnn
HD 92287	MS:B3:SPB	073.D-0466	53134.028	600B	$6 \pm 50$	0.95	$-40 \pm 48$	0.86	nnn
HD 92385	MS:B9:M.AP	072.D-0377	53008.369	600B	$-556 \pm 89$	0.92	$334 \pm 89$	0.92	DnD
HD 92385	MS:B9:M.AP	072.D-0377	53020.332	600B	$198 \pm 106$	1.05	$-180 \pm 106$	1.02	nnn
HD 92385	MS:B9:M.AP	074.D-0488	53399.395	600B	$-543 \pm 56$	0.94	$-8 \pm 55$	0.89	DnD
HD 92499	MS:A2:M.AP	072.D-0377	53010.255	600B	$-1737 \pm 141$	1.06	$-198 \pm 130$	0.91	nDD
HD 92499	MS:A2:M.AP	072.D-0377	53011.212	600B	$-1649 \pm 80$	1.86	$95 \pm 57$	0.92	dDD
HD 92499 Collinder 228 30	MS:A2:M.AP MS:B2	073.D-0464 073.D-0498	53118.095 53153.002	600B 600B	$-1451 \pm 74$ $601 \pm 120$	1.51 0.69	$-4 \pm 57$ $-158 \pm 110$	0.90 0.58	DDD dnD
HD 305451	MS:B9	073.D-0498	53153.002	600B	$-213 \pm 75$	0.69	$-138 \pm 110$ $-166 \pm 78$	0.58	nnn
HD 305535	MS:B2	073.D-0498	53153.002	600B	$-213 \pm 75$ $-3 \pm 56$	0.66	$-100 \pm 78$ $108 \pm 54$	0.63	nnn
HD 93030	MS:B0:PSB	072.D-0478	53012.231	600B	$-87 \pm 101$	0.92	$245 \pm 100$	0.90	nnn
HD 93030	MS:B0:PSB	278.D-5056	54181.033	1200B	$-18 \pm 21$	1.63	$7 \pm 18$	1.09	nnn
HD 305543	GS:B1	073.D-0498	53153.002	600B	$-46 \pm 114$	0.65	$-123 \pm 117$	0.68	nnn
WD 1042-690	WD:DA3	070.D-0259	52668.351	600B	$-342 \pm 728$	1.10	$-795 \pm 908$	1.16	n-n
WD 1042-690	WD:DA3	070.D-0259	52674.273	600B	$510 \pm 756$	1.35	$1578 \pm 768$	0.96	n-n
WD 1042-690	WD:DA3	070.D-0259	52695.301	600B	$-144 \pm 586$	0.96	$-541 \pm 731$	1.02	n-n
HD 94509	PM:A0	072.C-0447	53064.266	600B	$24 \pm 28$	1.01	$-22 \pm 26$	0.87	nnn
HD 94509	PM:A0	272.C-5063	53110.217	600B	$9 \pm 22$	1.19	$-17 \pm 20$	1.00	nnn
HD 94509	PM:A0	272.C-5063	53111.999	600B	$-8 \pm 22$	1.22	$-7 \pm 19$	0.93	nnn
HD 94660	MS:A0:M.AP	068.D-0403	52309.365	600B	$-2565 \pm 61$	1.77	$-25 \pm 46$	1.01	DDD
HD 94660	MS:A0:M.AP	068.D-0403	52309.375	600R	$-2905 \pm 56$	1.12	$6 \pm 33$	0.41	DDD
HD 94660	MS:A0:M.AP	070.D-0352	52678.404	600B	$-2653 \pm 62$	1.99	$36 \pm 42$	0.97	DDD
HD 94660 HD 94660	MS:A0:M.AP MS:A0:M.AP	072.C-0447 072.C-0447	53062.261 53062.272	600B 600B	$-2616 \pm 63$ $-2317 \pm 76$	1.81 1.61	$32 \pm 46$ $-201 \pm 59$	0.97 0.98	DDD DDD
HD 94660	MS:A0:M.AP	082.D-0342	54782.376	1200B	$-2317 \pm 70$ $-2389 \pm 51$	4.20	$-201 \pm 39$ $-29 \pm 31$	1.07	DDD
HD 94660	MS:A0:M.AP	082.D-0342	54782.370	1200B	$-2369 \pm 51$ $-2061 \pm 50$	2.82	$-29 \pm 31$ 9 ± 30	1.04	DDD
HD 94660	MS:A0:M.AP	060.A-9203	51991.001	600B	$-1980 \pm 49$	1.23	$41 \pm 39$	0.76	DDD
HD 94660	MS:A0:M.AP	060.A-9203	54181.147	1200B	$-1978 \pm 34$	3.44	$-22 \pm 20$	1.28	DDD
HD 94660	MS:A0:M.AP	060.A-9203	54181.161	600B	$-1961 \pm 59$	1.90	$-86 \pm 42$	1.00	DDD
HD 94660	MS:A0:M.AP	069.D-0210	52383.122	600B	$-2653 \pm 58$	3.11	$49 \pm 33$	1.01	DDD
HD 94660	MS:A0:M.AP	069.D-0210	52383.129	600R	$-3262 \pm 76$	4.30	$67 \pm 35$	0.95	DDD
HD 94660	MS:A0:M.AP	074.C-0442	53332.361	600B	$-2528 \pm 61$	2.78	$46 \pm 38$	1.07	DDD
HD 94660	MS:A0:M.AP	074.C-0442	53332.374	1200g	$-2520 \pm 38$	9.71	$-11 \pm 13$	1.14	DDD
HD 94660	MS:A0:M.AP	074.D-0488	53400.398	600B	$-2488 \pm 57$	2.29	$-23 \pm 34$	0.85	DDD
HD 94660	MS:A0:M.AP	079.D-0697	54311.976	1200B	$-2007 \pm 146$	1.04	$-101 \pm 175$	1.02	DDD
HD 94660	MS:A0:M.AP	081.D-0670	54692.975	1200B	$-2029 \pm 41$	4.55	$-33 \pm 19$	1.02	DDD
HD 94660	MS:A0:M.AP	081.D-0670	54693.969	1200B	$-2110 \pm 49$	2.59	$44 \pm 29$	0.96	DDD

Table 5. continued.

Star WD 1054-226	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$ 0.72	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
	WD:DA6:HPM	080.D-0521	54532.264	600B	$-3444 \pm 1589$		20 . 50	0.00	n-n
HD 95881	PM:A1	072.C-0447	53064.292	600B	$-39 \pm 48$	0.86	$29 \pm 50$	0.92	nnn
HD 95881	PM:A1	081.C-0410	54609.993	600B	$-101 \pm 29$	0.84	$-31 \pm 28$	0.79	nnd
HD 96042	PM:B1:E	074.C-0442	53330.367	600B	$139 \pm 84$	0.93	$17 \pm 82$	0.88	nnn
HD 96040	MS:A0:M.AP	074.D-0488	53399.370	600B	$-324 \pm 51$	1.05	$25 \pm 49$	0.99	DdD
HD 96451	MS:A0:AP	073.D-0464	53074.340	600B	$2 \pm 36$	0.91	$-67 \pm 35$	0.90	nnn
HD 96441	MS:A1	060.A-9203	51993.053	600B	$-58 \pm 69$	0.87	$4 \pm 83$	0.86	nnn
HD 96441	MS:A1	079.D-0697	54311.985	1200B	$-376 \pm 252$	1.02	$64 \pm 303$	1.05	nnn
HD 96441	MS:A1	272.C-5063	53112.086	600B	$-88 \pm 39$	0.97	$-55 \pm 37$	0.88	dnn
HD 96441	MS:A1	060.A-9203	51993.012	600B	$103 \pm 59$	0.87	$-16 \pm 59$	0.86	nnn
HD 96653	GS:A0	073.D-0498	53260.995	600B	$96 \pm 37$	0.59	$62 \pm 37$	0.61	nnn
CPD-58 3151	??:G1	073.D-0498	53260.995	600B	$-12 \pm 51$	0.57	$8 \pm 48$	0.51	nnn
HD 96685	MS:B8:E	073.D-0498	53260.995	600B	$1 \pm 74$	0.48	$-50 \pm 75$	0.50	nnn
HD 96729	MS:B9:M.AP	073.D-0498	53260.995	600B	$1057 \pm 51$	0.62	$5 \pm 47$	0.53	DDD
HD 96790	MS:A5	073.D-0498	53260.995	600B	$-179 \pm 86$	0.52	$149 \pm 83$	0.50	nnn
WD 1105-048	WD:DA3	070.D-0259	52641.351	600B	$-36 \pm 563$	0.96	$-1031 \pm 557$	0.94	n-n
WD 1105-048	WD:DA3	070.D-0259	52669.305	600B	$3240 \pm 646$	1.04	$-906 \pm 648$	1.05	D-D
HD 97048	PM:A0:P.SH.E	072.C-0447	53064.323	600B	$-129 \pm 58$	0.97	$58 \pm 56$	0.95	dnn
HD 97048	PM:A0:P.SH.E	074.C-0442	53331.370	600B	$-157 \pm 85$	1.04	$73 \pm 81$	0.95	nnn
HD 97048	PM:A0:P.SH.E	081.C-0410	54609.138	600B	$114 \pm 63$	0.79	$123 \pm 78$	0.79	nnn
HD 97048	PM:A0:P.SH.E	272.C-5063	53110.163	600B	$52 \pm 61$	1.04	$-37 \pm 64$	1.15	nnn
HD 97048	PM:A0:P.SH.E	272.C-5063	53110.188	600B	$287 \pm 423$	1.06	$22 \pm 438$	1.14	nnn
HD 97048	PM:A0:P.SH.E	272.C-5063	53112.047	600B	$15 \pm 57$	1.16	$-1 \pm 51$	0.93	nnn
HD 97048	PM:A0:P.SH.E	272.C-5063	53114.129	600B	$-548 \pm 172$	1.09	$-52 \pm 162$	0.97	dnd
HD 97048	PM:A0:P.SH.E	272.C-5063	53115.131	600B	$301 \pm 233$	1.10			nnn
HD 97048	PM:A0:P.SH.E	272.C-5063	53116.003	600B	$-99 \pm 52$	0.95	$44 \pm 50$	0.90	nnn
HD 303821	MS:A3:AP	074.D-0488	53400.358	600B	$-71 \pm 66$	0.98	$230 \pm 63$	0.88	nnn
HD 97300	PM:B9	081.C-0410	54609.047	600B	$91 \pm 65$	0.85	$-91 \pm 77$	0.79	nnn
HD 97689	MS:A0:AM	073.D-0322	53149.976	300V	$368 \pm 466$	0.79	$661 \pm 517$	1.01	nnn
HD 98340	MS:B9:M.AP	073.D-0464	53074.362	600B	$1023 \pm 75$	0.96	$-139 \pm 78$	1.03	DDD
HD 98922	PM:B9:E	072.C-0447	53064.341	600B	$14 \pm 90$	0.97	$102 \pm 85$	0.85	nnn
HD 99563	MS:F0:M.AP.ROAP	072.D-0377	53012.246	600B	$-446 \pm 83$	0.93	$120 \pm 82$	0.90	nDD
HD 99563	MS:F0:M.AP.ROAP	072.D-0377	53015.225	600B	$-561 \pm 99$	0.98	$8 \pm 96$	0.93	ddD
HD 99563	MS:F0:M.AP.ROAP	269.D-5044	52493.989	600B	$-517 \pm 192$	1.02	$-162 \pm 182$	0.92	nnn
HD 100453	PM:A9:E	074.C-0442	53332.347	600B	$37 \pm 52$	0.83	$-36 \pm 52$	0.84	nnn
HD 100453	PM:A9:E	081.C-0410	54610.022	600B	$-8 \pm 19$	0.82	$-16 \pm 18$	0.75	nnn
HD 100546	PM:B9:E	072.C-0447	53064.356	600B	$277 \pm 111$	1.03	$333 \pm 114$	1.08	nnn
HD 100546	PM:B9:E	081.C-0410	54610.044	600B	$-64 \pm 42$	0.81	$-49 \pm 52$	1.06	n-n
HD 306793	MS:B2:E	080.D-0383	54550.261	600B	$-53 \pm 61$	0.77	$43 \pm 72$	0.78	nnn
CPD-60 3088	MS:B2:HES	080.D-0383	54549.245	600B	$-10 \pm 47$	0.78	$-30 \pm 57$	0.78	nnn
HD 306795	MS:B2:M.HEW	080.D-0383	54550.187	600B	$1644 \pm 39$	0.72	$-56 \pm 47$	0.79	DDD
CPD-60 3098	MS:B2	080.D-0383	54550.187	600B	$412 \pm 275$	0.90	$475 \pm 352$	0.97	nnn
CPD-60 3117	??:F	080.D-0383	54550.375	600B	$164 \pm 242$	0.98	$-379 \pm 303$	1.01	nnn
HD 306797	MS:B4:E	080.D-0383	54550.375	600B	$-1 \pm 51$	0.74	$-16 \pm 60$	0.77	nnn
CPD-60 3120	MS:B3	080.D-0383	54550.067	600B	$-63 \pm 53$	0.71	$-9 \pm 65$	0.73	dnn
CPD-60 3125	MS:B2:E	080.D-0383	54550.017	600B	$-155 \pm 66$	0.76	$174 \pm 83$	0.78	nnn
HD 306798	MS:B2:E	080.D-0383	54549.151	600B	$21 \pm 38$	0.78	$45 \pm 45$	0.74	nnn
11:36:11 -61:34:23	MS:B4	080.D-0383	54549.116	600B	$-811 \pm 721$	1.26	$1441 \pm 855$	1.14	nnn
CPD-60 3128	MS:B2:E	080.D-0383	54549.116	600B	$-51 \pm 35$	0.80	$15 \pm 42$	0.78	nnn
CPD-60 3131	MS:B9	080.D-0383	54549.116	600B	$-207 \pm 442$	0.92	$-22 \pm 561$	1.02	nnn
CD-60 3626	MS:B2:E	080.D-0383	54549.194	600B	$1 \pm 65$	0.97	$-51 \pm 78$	1.00	nnn
CPD-60 3134	MS:B2:HES	080.D-0383	54549.304	600B	$-7 \pm 45$	0.77	$-4 \pm 55$	0.79	nnn
CD-60 3629	MS:B2	080.D-0383	54549.349	600B	$-55 \pm 31$	0.77	$11 \pm 38$	0.81	ndn
CPD-60 3143	MS:B2	080.D-0383	54550.127	600B	$0 \pm 40$	0.81	$-91 \pm 47$	0.77	nnn
HD 306791	MS:B2:E	080.D-0383	54549.021	600B	$-111 \pm 61$	0.74	$-59 \pm 64$	0.81	nnn
CPD-60 3174	MS:B3:HES	080.D-0383	54550.327	600B	$211 \pm 76$	0.83	$-29 \pm 90$	0.81	dnn
HD 100989	MS:B2	080.D-0383	54549.379	600B	$9 \pm 40$	0.81	$-24 \pm 46$	0.73	nnn
HD 101065	MS:F:M.AP.ROAP	069.D-0210	52383.198	600B	$-1458 \pm 97$	74.27	$-8 \pm 11$	0.90	DDD
HD 101065	MS:F:M.AP.ROAP	069.D-0210	52383.260	600R	$-1472 \pm 64$	7.81	$2 \pm 23$	1.01	qDD
HD 101065	MS:F:M.AP.ROAP	079.D-0240	54197.342	600B	$-1503 \pm 112$	5.59 5.50	$92 \pm 42$	0.80	dDD
HD 101065	MS:F:M.AP.ROAP	079.D-0240	54209.266	600B	$-1255 \pm 55$	5.59	$-6 \pm 20$	0.73	DDD
HD 101065	MS:F:M.AP.ROAP	079.D-0240	54222.098	600B	$-1232 \pm 53$	8.19 6.54	$5 \pm 16$	0.73	DDD
HD 101065 HD 101065	MS:F:M.AP.ROAP	079.D-0240 079.D-0240	54232.996	600B	$-1237 \pm 54$ $-1239 \pm 57$	6.54	$23 \pm 18$	0.74 0.76	DDD DDD
HD 101065 HD 101065	MS:F:M.AP.ROAP MS:F:M.AP.ROAP	079.D-0240 079.D-0240	54246.985 54254.082	600B 600B	$-1239 \pm 57$ $-1264 \pm 59$	7.70 4.62	$-2 \pm 18$ $2 \pm 23$	0.76	DDD
HD 101065 HD 101065	MS:F:M.AP.ROAP	079.D-0240 079.D-0240	54272.028	600B	$-1204 \pm 39$ $-1209 \pm 53$	8.22	$2 \pm 23$ $28 \pm 16$	0.73	DDD
HD 101065 HD 101065	MS:F:M.AP.ROAP MS:F:M.AP.ROAP	079.D-0240 079.D-0240	54272.028	600B	$-1209 \pm 53$ $-1230 \pm 55$	5.48	$-3 \pm 20$	0.74	DDD
בממומו חוו	MIS.I'.MI.AF.KUAP	U1フ.レーU2 <del>4</del> U	J+40U.Y/Y	OUUD	-1230 ± 33	J.40	-3 ± 20	0.70	עעע

Table 5. continued.

HD 1010065   MSE-MARROAP   079-D-0240   54297.033   6008   -1210±55   6.56   -40±19   0.77   DDD   DDD   HD 1010065   MSE-MARROAP   079-D02405   53406.048   6008   -1184±58   4.17   -24±8   0.90   dDD   DDD   DDD   DDD   MSE-MARROAP   079-D05023   52701.247   53062.299   6008   4.33±163   0.97   -100±164   0.99   dnn   DDD   071-D05023   0.008   0.008   -420±41   0.83   -14±41   0.85   DDD   DDD   0.008   0.0
HD 101065
HD 101412
HD101412
HD 101412
WD 1143-013
ND 1145-451   WD:DA8:HPM   080.D-052  54532_241   6008   5874 ± 2714   0.48   33 ± 45   0.87   nnn
HD 102647   MSA3CSD
HD 1062647   MS:A3:CSD
NLTT 28730 WD-DA6:HPM 080,D-052  54553,256 600B 1228±2238 0.82
CD-22 9142   SD:O
CD-29142   SD-O
HD 104237
HD 104237
HD 104237   PM:A4:M.P.E   O74.C-0442   S332.323   G00B   79±62   1.03   3±28   0.92   nm     HD 104321   MS:A5:B8   O74.C-0463   S338.588   1200g   62±26   1.01   3±28   0.92   nm     WD 1202-322   WD:D6   O73.D-0356   S3144.146   600B   -687±517   1.12   7.10±501   1.05   n-n     WD 1202-232   WD:D6   O73.D-0356   S3147.179   600B   -185±344   0.93   -602±362   1.06   n-n     WD 1202-232   WD:D6   O73.D-0356   S3147.179   600B   -185±344   0.93   -602±362   1.06   n-n     WD 1202-232   WD:D6   O73.D-0356   S3147.179   600B   -114±94   0.87   117±98   0.95   0.91     HD 105382   GS:B6.M.HEW   O72.D-0377   S3011.250   600B   -114±94   0.87   117±98   0.96   DDD     HD 105382   GS:B6.M.HEW   O73.D-0466   S3222.016   600B   0±93   0.89   0.94   0.94   0.94   0.94     HD 105382   GS:B6.M.HEW   O73.D-0466   S3242.900   600B   0±93   0.89   0.94
HD 104321
WD   1202-232
WD 1202-232
WD   100
HD 105379
HD 105382   GS:B6:M.HEW   072.D-0377   53011.195   600B   -1114±94   0.87   117±98   0.96   DDD   HD 105382   GS:B6:M.HEW   072.D-0377   53015.246   600B   -721±175   0.93   -270±211   0.94   dnd   HD 105382   GS:B6:M.HEW   073.D-0466   53144.003   600B   -724±66   0.90   -279±83   0.97   mn   HD 105382   GS:B6:M.HEW   073.D-0466   53144.003   600B   -945±233   1.32   10±246   1.24   dnd   HD 105435   MS:B2:E   075.D-0507   53475.129   1200g   -142±111   0.92   -171±116   1.00   nn   HD 105435   MS:B2:E   075.D-0406   53804.322   600B   -60±47   0.98   -6±50   1.10   nn   HD 105470   MS:B9:M.AP   072.D-0377   53011.233   600B   437±96   0.99   75±88   0.84   dnd   HD 105770   MS:B9:M.AP   072.D-0377   53011.270   600B   -32±83   0.86   76±83   0.87   nn   HD 105999   MS:F1:AP   072.D-0377   53011.270   600B   -32±83   0.86   76±83   0.87   nn   HD 1079090   MD:DA8   080.D-0521   54555.305   600B   5253±2882   0.65   HD 107696   MS:B8:AP   071.D-0308   528±0.30   600B   525±82   0.65   HD 107696   MS:B8:AP   071.D-0308   528±0.30   600B   525±83   0.85   76±83   0.87   nn   HD 107696   CP   075.D-0289   5352.059   600B   547±457   1.14   4475±470   1.20   nn   HD 107969   CP   075.D-0289   5352.059   600B   449±292   1.13   335±297   0.96   nn   HD 107969   CP   075.D-0289   5352.053   600B   549±292   1.13   335±297   0.96   nn   HD 107969   CP   075.D-0289   5352.053   600B   549±292   1.13   335±297   0.96   nn   HD 107969   CP   075.D-0289   5352.053   600B   549±292   1.13   335±297   0.96   nn   HD 107969   CP   075.D-0289   5352.053   600B   549±292   1.13   335±297   0.96   nn   HD 107969   CP   075.D-0289   5352.053   600B   549±292   1.13   335±297   0.96   nn   HD 107969   CP   075.D-0289   5352.053   600B   549±292   1.13   335±297   0.96   nn   HD 107969   CP   075.D-0289   5352.053   600B   549±292   0.97   0.97   0.99   0.9
HD 105382   GS:B6   G73.D-0466   53220.016   600B   -0.293   0.89
HD 105382   GS:B6:M.HEW   073.D-0377   53015.246   600B   -24±66   0.99   -279±211   0.94   dnd   HD 105382   GS:B6:M.HEW   073.D-0466   53144.003   600B   -24±65   0.90   -279±83   0.97   nnn   HD 105435   MS:B2:E   075.D-0507   53475.129   1200g   -142±111   0.92   -171±116   1.00   nnn   HD 105435   MS:B2:E   077.D-0406   53869.232   600B   -60±47   0.98   -6±50   1.10   nnn   HD 105470   MS:B9:M.AP   072.D-0377   53011.233   600B   437±96   0.99   75±88   0.84   dnd   HD 105770   MS:B9:M.AP   073.D-0464   53102.145   600B   244±65   0.90   -64±67   0.94   dnd   HD 105770   MS:B9:M.AP   072.D-0377   53011.270   600B   -32±83   0.86   76±83   0.87   nnn   HD 105760   MS:B8:AP   072.D-0377   53011.270   600B   232±83   0.86   76±83   0.87   nnn   HD 107696   MS:B8:AP   071.D-0308   528±030   600B   5253±2882   0.65   Nnn   HD 107696   MS:B8:AP   071.D-0308   528±030   600B   547±457   1.14   -475±470   1.20   nnn   HD 107969   CP   075.D-0289   53525.072   600B   547±457   1.14   -475±470   1.20   nnn   HD 107969   CP   075.D-0289   53525.072   600B   49±92   1.13   335±297   0.96   nnn   HD 108945   MS:A3:M.AP   072.D-0377   5301.335   600B   -5±15   0.88   -6±14   0.80   nnn   HD 109085   MS:F2:CSD   074.C-0463   53405.328   1200g   -5±15   0.88   -6±14   0.80   nnn   HD 109085   MS:F2:CSD   074.C-0463   53405.328   1200g   -5±15   0.88   -6±14   0.80   nnn   HD 109085   MS:B1:BCEP   075.D-0432   53455.191   1200g   46±26   1.11   -40±30   0.94   nnn   BS Cru   MS:B1:BCEP   075.D-0432   53455.191   1200g   46±26   1.11   -40±30   0.94   nnn   BS Cru   MS:B1:BCEP   075.D-0432   53455.191   600B   49±76   0.90   106±70   0.75   nnn   HD 112244   SG:O8   075.D-0432   53455.191   600B   8±68   0.89   -128±84   0.83   nnn   HD 112244   SG:O8   075.D-0432   53455.191   600B   8±68   0.89   -128±84   0.83   nnn   HD 115226   MS:A3:M.AP   073.D-0464   5308.029   600B   703±40   1.23   1±34   0.89   DDD   HD 115226   MS:A3:M.AP   073.D-0464   53080.299   600B   703±40   1.23   1±34   0.89   DDD   HD 115400   MS:B9:
HD 105382   GS:B6:M.HEW   073.D-0466   53144.003   600B   -24 ± 66   0.90   -279 ± 83   0.97   nnn   HD 105382   GS:B6:M.HEW   073.D-0466   53224.990   600B   -945 ± 253   1.32   10 ± 246   1.24   dnd   HD 105435   MS:B2:E   075.D-0507   53475.129   1200g   -14 ± 111   0.92   -171 ± 116   1.00   nnn   HD 105435   MS:B2:E   077.D-0406   53869.232   600B   -60 ± 47   0.98   -6 ± 50   1.10   nnn   HD 105770   MS:B9:M.AP   072.D-0377   53011.233   600B   437 ± 96   0.99   75 ± 88   0.84   dnd   HD 105999   MS:B9:M.AP   073.D-0464   53120.145   600B   244 ± 65   0.90   -64 ± 67   0.94   dnd   HD 105999   MS:F1:AP   072.D-0377   53011.270   600B   -32 ± 83   0.86   76 ± 83   0.87   nnn   MD 1209-060   MS:B8:AP   073.D-0464   53120.145   600B   -32 ± 88   0.65   -16 ± 101   0.80   nnn   HD 107696   MS:B8:AP   073.D-0464   53074.375   600B   523 ± 2882   0.65   -16 ± 101   0.80   nnn   HD 107696   MS:B8:AP   073.D-0464   53074.375   600B   547 ± 457   1.14   -475 ± 470   1.20   nnn   HD 107969   CP   075.D-0289   53525.093   600B   631 ± 345   0.97   374 ± 333   0.89   nnn   HD 107969   CP   075.D-0289   53525.093   600B   61 ± 345   0.97   374 ± 333   0.89   nnn   HD 107969   CP   075.D-0289   53525.093   600B   61 ± 345   0.97   374 ± 333   0.89   nnn   HD 107969   CP   075.D-0289   53525.093   600B   65 ± 87   0.97   374 ± 333   0.89   nnn   HD 107969   CP   075.D-0289   53525.093   600B   65 ± 87   0.97   374 ± 333   0.89   nnn   HD 107969   CP   075.D-0289   53525.093   600B   67 ± 78   1.13   335 ± 297   0.96   nnn   HD 107969   CP   075.D-0289   53525.093   600B   67 ± 36   0.77   7 ± 36   0.77   nnn   NCTT 31483   MS:AS:FLS   082.D-0695   54831.365   300V   -5 ± 15   0.88   -6 ± 14   0.80   nnn   HD 107969   CP   075.D-0289   53525.093   600B   67 ± 78   1.13   -46 ± 14   0.80   nnn   HD 107244   SG:OS   075.D-0432   53455.190   600B   81 ± 54   0.97   -69 ± 94   0.94   nnn   BS Cru   MS:B1:BCEP   078.D-0432   53455.190   600B   81 ± 54   0.87   0.97   -69 ± 94   0.94   nnn   BS Cru   MS:B1:BCEP   078.D-0432
HD 105382   GS:B6:M:HEW   073.D-0466   53224.990   600B   -945.±253   1.32   10.±246   1.24   dnd   HD 105435   MS:B2:E   075.D-0507   53475.129   1200g   -142±111   0.92   -171±116   1.00   nnn   HD 105435   MS:B2:E   077.D-0406   53869.232   600B   -60±47   0.98   -66±50   1.10   nnn   HD 105770   MS:B9:M:AP   072.D-0377   53011.233   600B   437±96   0.99   75±88   0.84   dnd   HD 105770   MS:B9:M:AP   072.D-0377   53011.270   600B   244±65   0.99   0.64±67   0.94   dnd   HD 105790   MS:F1:AP   072.D-0377   53011.270   600B   242±65   0.99   0.64±67   0.94   dnd   HD 105999   MS:F1:AP   072.D-0377   53011.270   600B   -32±83   0.86   76±83   0.87   nnn   HD 107696   MS:B8:AP   071.D-0308   528524.030   600B   -9±107   0.90   -165±101   0.80   nnn   HD 107696   MS:B8:AP   073.D-0464   53074.375   600B   547±457   1.14   -475±470   1.20   nnn   HD 107969   CP   075.D-0289   53526.072   600B   547±457   1.14   -475±470   1.20   nnn   HD 107969   CP   075.D-0289   53526.072   600B   651±345   0.97   374±333   0.89   nnn   HD 108945   MS:A3:M:AP   072.D-0377   53015.335   600B   651±345   0.97   374±333   0.89   nnn   HD 108945   MS:A3:M:AP   072.D-0377   53015.335   600B   651±345   0.97   115±85   0.93   nnn   HD 109085   MS:F2:CSD   074.C-0463   53405.328   1200g   -5±15   0.88   -6±14   0.80   nnn   HD 10730   MS:A0:CSD   081.C-0410   54610.116   600B   -7±36   0.77   7±36   0.77   nnn   NLTT31483   WD:DA9:HPM   080.D-0521   54550.282   600B   14±96   0.97   -69±94   0.94   nnn   BS Cru   MS:B1:BCEP   075.D-0432   53455.190   600B   81±54   0.87   0.99   106±70   0.76   nnn   HD 112244   SG:O8   075.D-0432   53455.190   600B   81±54   0.87   0.99   1.07   0.75   nnn   HD 112244   SG:O8   075.D-0432   53455.190   600B   81±54   0.87   0.99   1.06±70   0.76   nnn   HD 112326   MS:A3:M:AP   073.D-0464   5307.338   600B   600B   728±27   1.24   -29±26   1.11   nnn   HD 116890   MS:B3:AP   073.D-0464   5307.338   600B   600
HD 105435   MS:B2:E   075.D-0507   53475.129   1200g
HD 105435   MS:B2:E
HD 105770   MS:B9:M.AP   072.D-0377   53011.233   600B   437±96   0.99   75±88   0.84   dnd   HD 105770   MS:B9:M.AP   073.D-0464   53120.145   600B   244±65   0.90   -64±67   0.94   dnd   HD 105999   MS:Fi:AP   072.D-0377   53011.270   600B   -32±83   0.86   76±83   0.87   nnn   WD 1209-060   WD:DA8   080.D-0521   54555.305   600B   5253±2882   0.65   nn   HD 107696   MS:B8:AP   071.D-0308   52824.030   600B   5253±2882   0.65   nn   HD 107696   MS:B8:AP   073.D-0464   53074.375   600B   547±457   1.14   -475±470   1.20   nnn   HD 107696   MS:B8:AP   073.D-0464   53074.375   600B   547±457   1.14   -475±470   1.20   nnn   HD 107969   CP   075.D-0289   53525.093   600B   -431±398   1.10   292±393   1.10   nnn   HD 107969   CP   075.D-0289   53525.073   600B   651±345   0.97   374±333   0.89   nnn   HD 107969   CP   075.D-0289   53525.0753   600B   651±345   0.97   374±333   0.89   nnn   HD 108945   MS:A3:M.AP   072.D-0377   53015.335   600B   -55±87   0.97   115±85   0.93   nnn   HD 10985   MS:F2:CSD   074.C-0463   53405.328   1200g   -5±15   0.88   -6±14   0.80   nnn   GJ 473   A   MS:M5:FLS   082.D-0695   54831.365   300V   -7±36   0.77   7±36   0.77   nnn   NLTT31483   WD:DA9:HPM   080.D-0521   54556.282   600B   14±96   0.97   -69±94   0.94   nnn   BS Cru   MS:B1:BCEP   078.D-0140   54155.209   600B   81±54   0.87   22±56   0.95   nnn   HD 112244   SG:O8   075.D-0432   53453.104   600B   81±54   0.87   22±56   0.95   nnn   HD 112244   SG:O8   075.D-0432   53453.104   600B   88±68   0.89   -128±84   0.83   nnn   HD 115226   MS:A3:M.AP   073.D-0464   53074.389   600B   73±427   1.24   -29±26   1.11   nnn   HD 115892   MS:A2:CSD   074.C-0463   53405.347   1200g   -54±27   1.24   -29±26   1.11   nnn   HD 115206   MS:A3:M.AP   073.D-0464   53074.389   600B   738±42   1.57   -92±41   0.93   DDD   HD 115892   MS:A2:M.AP   071.D-0308   52824.055   600B   738±54   1.57   -92±41   0.93   DDD   HD 115893   WD:DA4   073.D-0356   5315.033   600B   -365±467   1.03   -65±584   1.08   nn   DDD   HD 115893   WD:DA4   073.
HD 105999   MS:F1:AP   072.D-0377   53011.270   600B   523±83   0.86   76±83   0.87   nnn   nn   HD 107696   MS:B8:AP   071.D-0308   52824.030   600B   523±2882   0.65   nnn   nn   HD 107696   MS:B8:AP   073.D-0464   53074.375   600B   547±457   1.14   -475±470   1.20   nnn   HD 107969   CP   075.D-0289   53525.093   600B   -431±398   1.10   292±393   1.10   nnn   HD 107969   CP   075.D-0289   53525.093   600B   40±292   1.13   333±297   0.96   nnn   HD 107969   CP   075.D-0289   53525.093   600B   651±345   0.97   374±333   0.89   nnn   HD 107969   CP   075.D-0289   53525.093   600B   651±345   0.97   374±333   0.89   nnn   HD 107969   CP   075.D-0289   53525.093   600B   651±345   0.97   374±333   0.89   nnn   HD 108945   MS:A3:MAP   072.D-0377   53015.335   600B   -55±87   0.97   115±85   0.93   nnn   HD 109085   MS:F2:CSD   074.C-0463   53405.328   1200g   -5±15   0.88   -6±14   0.80   nnn   GJ 473   A   MS:M5:FLS   082.D-0695   54831.365   300V   HD 109573   MS:A0:CSD   081.C-0410   54610.116   600B   -7±36   0.77   7±36   0.77   nnn   NLTT 31483   WD:DA9:HPM   080.D-0521   54556.282   600B   H2 96   0.97   -69±94   0.94   nnn   BS Cru   MS:B1:BCEP   075.D-0295   53455.151   1200g   46±26   1.11   -40±30   0.94   nnn   BS Cru   MS:B1:BCEP   078.D-0140   54155.209   600B   81±54   0.87   22±56   0.95   nnn   HD 112244   SG:O8   075.D-0432   53455.190   600B   81±54   0.87   22±56   0.95   nnn   HD 112244   SG:O8   075.D-0432   53455.190   600B   88±68   0.89   -128±84   0.83   nnn   HD 115226   MS:A3:M.AP   073.D-0464   53074.389   600B   88±68   0.89   -128±84   0.83   nnn   HD 115226   MS:A3:M.AP   073.D-0464   53074.389   600B   36±203   0.85   ndd   MD 115400   MS:B9:AP   071.D-0308   52824.057   600B   36±467   1.03   -65±584   1.10   nn   HD 115295   MS:A2:CSD   074.C-0463   53453.174   600B   -36±597   1.10   125±55   0.94   dDD   HD 117025   MS:A2:M.AP   073.D-0464   53074.389   600B   -36±467   1.03   -65±584   1.08   nn   ND 10237-083   WD:DA4   073.D-0366   53153.068   600B   -402±451   0.96
WD   1209-060   WD   1208   080   0-0521   54555.305   600B   5253 ± 2882   0.65
HD 107696   MS:B8:AP   071.D-0308   52824.030   600B   -9 ± 107   0.90   -165 ± 101   0.80   nnn   HD 107696   MS:B8:AP   073.D-0464   53074.375   600B   547 ± 457   1.14   -475 ± 470   1.20   nnn   HD 107969   CP   075.D-0289   53525.093   600B   -431 ± 398   1.10   292 ± 393   1.10   nnn   HD 107969   CP   075.D-0289   53526.072   600B   149 ± 292   1.13   335 ± 297   0.96   nnn   HD 107969   CP   075.D-0289   53527.053   600B   651 ± 345   0.97   374 ± 333   0.89   nnn   HD 108945   MS:A3:M.AP   072.D-0377   53015.335   600B   651 ± 345   0.97   374 ± 333   0.89   nnn   HD 108945   MS:E2:CSD   074.C-0463   53405.328   1200g   -5 ± 15   0.88   -6 ± 14   0.80   nnn   HD 109673   MS:MS:F2:CSD   074.C-0463   53405.328   1200g   -5 ± 15   0.88   -6 ± 14   0.80   nnn   HD 109573   MS:A0:CSD   081.C-0410   54610.116   600B   -7 ± 36   0.77   7 ± 36   0.77   nnn   NILTT 31483   WD:DA9:HPM   080.D-0521   54556.282   600B   -7 ± 36   0.97   7 ± 36   0.77   nnn   NILTT 31483   WD:DA9:HPM   080.D-0521   54556.282   600B   -7 ± 36   0.97   -69 ± 94   0.94   nnn   BS Cru   MS:B1:BCEP   078.D-0140   54157.202   600B   81 ± 54   0.87   22 ± 56   0.95   nnn   HD 112244   SG:O8   075.D-0432   53455.190   600B   81 ± 54   0.87   22 ± 56   0.95   nnn   HD 112244   SG:O8   075.D-0432   53455.190   600B   81 ± 54   0.87   22 ± 56   0.95   nnn   HD 112244   SG:O8   075.D-0432   53455.190   600B   88 ± 68   0.89   -128 ± 84   0.83   nnn   HD 115226   MS:A3:M.AP   073.D-0464   53074.389   600B   88 ± 68   0.89   -128 ± 84   0.87   DDD   HD 115226   MS:A3:M.AP   073.D-0464   53074.389   600B   3251 ± 56   1.84   12 ± 43   0.89   DDD   HD 115892   MS:A2:M.AP   073.D-0464   53074.389   600B   365 ± 07   1.10   125 ± 55   0.94   dDD   HD 116890   MS:B9:AP   071.D-0308   52824.067   600B   603 ± 59   1.10   125 ± 55   0.94   dDD   HD 116890   MS:B9:AP   071.D-0308   52824.067   600B   603 ± 59   1.10   125 ± 55   0.94   dDD   HD 116890   MS:B9:AP   071.D-0308   52824.067   600B   603 ± 59   1.10   125 ± 55   0.94   dDD   HD 116890   MS
HD 107696   MS:B8:AP   073.D-0464   53074.375   600B   547 ± 457   1.14   -475 ± 470   1.20   nnn     HD 107969   CP   075.D-0289   53525.093   600B   -431 ± 398   1.10   292 ± 393   1.10   nnn     HD 107969   CP   075.D-0289   53525.072   600B   149 ± 292   1.13   335 ± 297   0.96   nnn     HD 107969   CP   075.D-0289   53527.053   600B   651 ± 345   0.97   374 ± 333   0.89   nnn     HD 108945   MS:A3:M.AP   072.D-0377   53015.335   600B   -55 ± 87   0.97   115 ± 85   0.93   nnn     HD 10985   MS:FCSD   074.C-0463   53405.328   1200g   -5 ± 15   0.88   -6 ± 14   0.80   nnn     GJ 473 A   MS:M5:FLS   082.D-0695   54831.365   300V
HD 107969
HD 107969   CP
HD 107969
HD 108945   MS:A3:M.AP   072.D-0377   53015.335   600B   -55±87   0.97   115±85   0.93   nnn     HD 109085   MS:F2:CSD   074,C-0463   53405.328   1200g   -5±15   0.88   -6±14   0.80   nnn     GJ 473 A   MS:M5:FLS   082.D-0695   54831.365   300V
HD 109085   MS:F2:CSD   074.C-0463   53405.328   1200g   -5±15   0.88   -6±14   0.80   nnn   GJ 473 A   MS:M5:FLS   082.D-0695   54831.365   300V
GJ 473 A         MS:M5:FLS         082.D-0695         54831.365         300V         —
HD 109573   MS:A0:CSD   081.C-0410   54610.116   600B   -7±36   0.77   7±36   0.77   nnn
NLTT 31483   WD:DA9:HPM   O80.D-0521   54556.282   600B   HD 111123   GS:B0:BCEP   O75.D-0295   53455.151   1200g   46 ± 26   1.11   -40 ± 30   0.94   nnn   BS Cru   MS:B1:BCEP   O78.D-0140   54155.209   600B   14 ± 96   0.97   -69 ± 94   0.94   nnn   BS Cru   MS:B1:BCEP   O78.D-0140   54155.209   600B   81 ± 54   0.87   22 ± 56   0.95   nnn   HD 112244   SG:O8   O75.D-0432   53455.190   600B   38 ± 48   1.07   -90 ± 47   0.90   nnn   HD 112244   SG:O8   O75.D-0432   53455.194   600B   67 ± 78   1.13   -46 ± 71   0.75   nnn   HD 112244   SG:O8   O75.D-0432   53455.194   600B   199 ± 76   0.90   106 ± 70   0.76   nnn   HD 112244   SG:O8   O75.D-0432   53483.104   600B   199 ± 76   0.90   106 ± 70   0.76   nnn   HD 114365   MS:A0:AP   O71.D-0308   52824.043   600B   88 ± 68   0.89   -128 ± 84   0.83   nnn   HD 115226   MS:A3:M.AP   O73.D-0464   53074.389   600B   936 ± 203   0.85   Nd   MD 1316-215   WD:DA8:HPM   080.D-0521   54534.384   600B   WD 1316-215   WD:DA8:HPM   080.D-0521   54534.384   600B   0.85   0.85   0.85   Nd   MS:A2:CSD   O74.C-0463   53405.347   1200g   -54 ± 27   1.24   -29 ± 26   1.11   nnn   HD 116890   MS:B9:AP   O71.D-0308   52824.057   600B   603 ± 59   1.10   125 ± 55   0.94   dDD   HD 117025   MS:A2:M.AP   O71.D-0308   52824.067   600B   603 ± 59   1.10   125 ± 55   0.94   dDD   WD 1327-083   WD:DA4   O73.D-0356   53153.068   600B   -402 ± 451   0.96   -63 ± 597   1.04   n-n   ND   ND 1327-083   WD:DA4   O73.D-0356   53153.068   600B   -402 ± 451   0.96   -63 ± 597   1.04   n-n   ND   ND 1327-083   WD:DA4   O73.D-0356   53153.068   600B   -402 ± 451   0.96   -63 ± 597   1.04   n-n   ND   ND 1327-083   WD:DA4   O73.D-0356   53153.068   600B   -402 ± 451   0.96   -63 ± 597   1.04   n-n   ND   ND 1327-083   WD:DA4   O73.D-0356   53153.068   600B   -402 ± 451   0.96   -63 ± 597   1.04   n-n   ND   ND 1327-083   WD:DA4   O73.D-0356   53153.068   600B   -402 ± 451   0.96   -63 ± 597   1.04   n-n   ND   ND 1327-083   WD:DA4   O73.D-0356   53153.068   600B   -402 ± 451   0.96   -63 ± 597   1.
HD 111123   GS:B0:BCEP   075.D-0295   53455.151   1200g   46±26   1.11   -40±30   0.94   nnn   BS Cru   MS:B1:BCEP   078.D-0140   54155.209   600B   14±96   0.97   -69±94   0.94   nnn   BS Cru   MS:B1:BCEP   078.D-0140   54157.202   600B   81±54   0.87   22±56   0.95   nnn   HD 112244   SG:O8   075.D-0432   53455.190   600B   38±48   1.07   -90±47   0.90   nnn   HD 112244   SG:O8   075.D-0432   53475.174   600B   67±78   1.13   -46±71   0.75   nnn   HD 112244   SG:O8   075.D-0432   53483.104   600B   199±76   0.90   106±70   0.76   nnn   HD 114365   MS:A0:AP   071.D-0308   52824.043   600B   88±68   0.89   -128±84   0.83   nnn   HD 115226   MS:A3:M.AP   073.D-0464   53086.299   600B   703±40   1.23   1±34   0.87   DDD   HD 115226   MS:A3:M.AP   073.D-0464   53074.389   600B   936±203   0.85   ndd   WD 1316-215   WD:DA8:HPM   080.D-0521   54534.384   600B   400B
BS Cru MS:B1:BCEP 078.D-0140 54155.209 600B 14±96 0.97 -69±94 0.94 nnn BS Cru MS:B1:BCEP 078.D-0140 54157.202 600B 81±54 0.87 22±56 0.95 nnn HD 112244 SG:O8 075.D-0432 53455.190 600B 38±48 1.07 -90±47 0.90 nnn HD 112244 SG:O8 075.D-0432 53455.190 600B 67±78 1.13 -46±71 0.75 nnn HD 112244 SG:O8 075.D-0432 53475.174 600B 67±78 1.13 -46±71 0.75 nnn HD 112244 SG:O8 075.D-0432 53483.104 600B 199±76 0.90 106±70 0.76 nnn HD 114365 MS:A0:AP 071.D-0308 52824.043 600B 88±68 0.89 -128±84 0.83 nnn HD 115226 MS:A3:M.AP 073.D-0464 53086.299 600B 703±40 1.23 1±34 0.87 DDD HD 115226 MS:A3:M.AP 073.D-0464 53074.389 600B 936±203 0.85 ndd WD 1316-215 WD:DA8:HPM 080.D-0521 54534.384 600B HD 115892 MS:A2:CSD 074.C-0463 53405.347 1200g -54±27 1.24 -29±26 1.11 nnn HD 116890 MS:B9:AP 071.D-0308 52824.055 600B -361±66 0.90 101±65 0.88 dDD HD 117025 MS:A2:M.AP 073.D-0464 53120.164 600B 728±54 1.57 -92±41 0.93 DDD WD 1327-083 WD:DA4 073.D-0356 53151.033 600B -365±467 1.03 -65±584 1.08 n-n WD 1327-083 WD:DA4 073.D-0356 53153.068 600B -402±451 0.96 -63±597 1.04 n-n
BS Cru         MS:B1:BCEP         078.D-0140         54157.202         600B         81 ± 54         0.87         22 ± 56         0.95         nnn           HD 112244         SG:O8         075.D-0432         53455.190         600B         38 ± 48         1.07         -90 ± 47         0.90         nnn           HD 112244         SG:O8         075.D-0432         53475.174         600B         67 ± 78         1.13         -46 ± 71         0.75         nnn           HD 112244         SG:O8         075.D-0432         53483.104         600B         199 ± 76         0.90         106 ± 70         0.76         nnn           HD 114365         MS:A0:AP         071.D-0308         52824.043         600B         88 ± 68         0.89         -128 ± 84         0.83         nnn           HD 115226         MS:A3:M.AP         073.D-0464         53086.299         600B         703 ± 40         1.23         1 ± 34         0.87         DDD           HD 115226         MS:A3:M.AP         073.D-0464         53074.389         600B         936 ± 203         0.85         ndd           WD:D48:HPM         080.D-0521         54534.384         600B         3251 ± 56         1.84         12 ± 43         0.89         DDD
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
HD 114365         MS:A0:AP         071.D-0308         52824.043         600B         88 ± 68         0.89         −128 ± 84         0.83         nnn           HD 115226         MS:A3:M.AP         073.D-0464         53086.299         600B         703 ± 40         1.23         1 ± 34         0.87         DDD           HD 115226         MS:A3:M.AP         073.D-0464         53074.389         600B         936 ± 203         0.85         mdd           WD 1316-215         WD:DA8:HPM         080.D-0521         54534.384         600B         3251 ± 56         1.84         12 ± 43         0.89         DDD           HD 115440         MS:B9:M.AP         073.D-0464         53077.213         600B         3251 ± 56         1.84         12 ± 43         0.89         DDD           HD 115892         MS:A2:CSD         074.C-0463         53405.347         1200g         −54 ± 27         1.24         −29 ± 26         1.11         nnn           HD 116890         MS:B9:AP         071.D-0308         52824.055         600B         −361 ± 66         0.90         101 ± 65         0.88         dDD           HD 117025         MS:A2:M.AP         073.D-0464         53120.164         600B         728 ± 54         1.57         −92 ± 41
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
HD 116890 MS:B9:AP 071.D-0308 52824.055 600B -361 ± 66 0.90 101 ± 65 0.88 dDD HD 117025 MS:A2:M.AP 071.D-0308 52824.067 600B 603 ± 59 1.10 125 ± 55 0.94 dDD HD 117025 MS:A2:M.AP 073.D-0464 53120.164 600B 728 ± 54 1.57 -92 ± 41 0.93 DDD WD 1327-083 WD:DA4 073.D-0356 53151.033 600B -365 ± 467 1.03 -65 ± 584 1.08 n-n WD 1327-083 WD:DA4 073.D-0356 53153.068 600B -402 ± 451 0.96 -63 ± 597 1.04 n-n
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
WD 1327-083 WD:DA4 073.D-0356 53153.068 600B $-402 \pm 451$ 0.96 $-63 \pm 597$ 1.04 n-n
HD 117555 SG:G5:M.FKCOM 280.D-5075 54569.231 600B $24 \pm 18$ 0.84 $14 \pm 17$ 0.74 nnn
HD 117555 SG:G5:M.FKCOM 280.D-5075 54571.286 600B $138 \pm 21$ 0.84 $39 \pm 22$ 0.75 dDD
HD 117555 SG:G5:M.FKCOM 280.D-5075 54575.209 600B $233 \pm 20$ 0.87 $10 \pm 21$ 0.73 dDD
HD 117555 SG:G5:M.FKCOM 280.D-5075 54576.131 600B $91 \pm 18$ 0.79 $-16 \pm 19$ 0.74 ndd
HD 117555 SG:G5:M.FKCOM 280.D-5075 54577.177 600B 151 ± 22 0.81 3 ± 23 0.77 nDD
HD 117555 SG:G5:M.FKCOM 280.D-5075 54578.165 600B $190 \pm 29$ 0.77 $-57 \pm 33$ 0.75 nDD

Table 5. continued.

Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
HD 117555	SG:G5:M.FKCOM	280.D-5075	54579.205	600B	$100 \pm 24$	0.78	$-65 \pm 26$	0.76	ndd
HD 117555	SG:G5:M.FKCOM	280.D-5075	54582.186	600B	$174 \pm 19$	0.80	$37 \pm 20$	0.74	nDD
HD 117357	GS:B0:E	075.D-0507	53507.995	1200g	$125 \pm 104$	0.99	$-85 \pm 131$	1.00	nnn
07:09:18 -32:04:30	??:G	073.D-0516	53134.050	600B					_
07:09:18 -32:04:30	??:G	073.D-0516	53137.010	600B					_
PN A66 36	CP	072.D-0089	53031.287	600B	$144 \pm 477$	1.04	$1642 \pm 502$	0.91	nnn
PN A66 36	CP CP	075.D-0289	53525.004	600B	$-35 \pm 160$	0.98	$-425 \pm 161$	1.00	nnn
PN A66 36 PN A66 36	CP CP	075.D-0289 075.D-0289	53525.972	600B 600B	$198 \pm 213$ $258 \pm 224$	0.99 0.98	$-336 \pm 249$	0.95 0.86	nnn
HD 118913	MS:A0:M.AP	073.D-0289 071.D-0308	53526.973 52824.081	600B	$-263 \pm 62$	0.98	$-267 \pm 264$ $-88 \pm 59$	0.80	nnn dnd
HD 118913	MS:A0:M.AP	071.D-0308 073.D-0464	53120.181	600B	$-203 \pm 02$ $-516 \pm 32$	1.46	$-3 \pm 26$	0.95	DDD
HD 119308	MS:A0:M.AP	073.D-0464	53120.204	600B	$-293 \pm 48$	1.13	$13 \pm 41$	0.85	dDD
HD 120324	MS:B2:P.E	075.D-0507	53455.222	1200g	$286 \pm 342$	1.28	$-299 \pm 451$	1.32	nnn
HD 120324	MS:B2:P.E	077.D-0406	53869.296	600B	$-69 \pm 21$	0.82	$-22 \pm 21$	0.75	ndd
HD 120709	MS:B5:PGA	072.D-0377	53015.323	600B	$118 \pm 83$	0.90	$-1 \pm 83$	0.95	nnn
CD-46 8926	SD:O	072.D-0290	53058.347	600B	$-92 \pm 146$	1.16	$-14 \pm 155$	1.18	nnn
HD 120991	GS:B2:E	075.D-0507	53512.056	1200g	$-85 \pm 190$	1.65	$-71 \pm 192$	1.70	-nn
HD 122970	MS:F0:M.AP.ROAP	072.D-0377	53015.350	600B	$354 \pm 89$	1.03	$-130 \pm 84$	0.92	ndd
HD 122970	MS:F0:M.AP.ROAP	269.D-5044	52494.006	600B	$326 \pm 53$	1.03	$32 \pm 49$	0.88	ddD
CD-47 8861	??:G	073.D-0498	53220.043	600B	$-44 \pm 32$	0.64	$-54 \pm 29$	0.53	-nn
CD-47 8868 HD 122983	MS:A0	073.D-0498	53220.043	600B	$-24 \pm 66$	0.51	$54 \pm 64$	0.47	nnn
NGC 5460 73	MS:B9 ??:K5	073.D-0498 073.D-0498	53220.043 53199.023	600B 600B	$186 \pm 40$ $71 \pm 39$	0.54 0.51	$79 \pm 39$ $96 \pm 38$	0.51 0.49	dnd
HD 123183	MS:A0	073.D-0498 073.D-0498	53199.023	600B	$-470 \pm 112$	0.54	$70 \pm 38$ $71 \pm 108$	0.49	-nn dnd
HD 123201B	MS:B9	073.D-0498	53199.023	600B	$-70 \pm 70$	0.34	$92 \pm 71$	0.50	nnn
HD 123225	MS:B8	073.D-0498	53199.023	600B	$127 \pm 65$	0.58	$-42 \pm 60$	0.49	nnn
HD 123515	MS:B9:SPB	071.D-0308	52824.093	600B	$-80 \pm 69$	0.87	$88 \pm 83$	0.87	nnn
HD 123515	MS:B9:SPB	075.D-0295	53454.179	1200g	$-47 \pm 28$	1.04	$13 \pm 26$	0.91	nnn
HD 125630	MS:A2:M.AP	071.D-0308	52824.107	600B	$735 \pm 52$	1.02	$103 \pm 49$	0.90	DDD
HD 125630	MS:A2:M.AP	073.D-0464	53120.221	600B	$73 \pm 44$	0.98	$-44 \pm 43$	0.94	nnn
HD 127493	SD:O	075.D-0352	53571.047	600B	$138 \pm 166$	0.87	$-302 \pm 198$	0.95	nnn
WD 1425-811	WD:DA6	073.D-0516	53137.044	600B	$440 \pm 1351$	1.11	$33 \pm 1333$	1.08	n-n
HD 127453	MS:B8:M.AP	071.D-0308	52824.121	600B	$-261 \pm 72$	0.90	$-37 \pm 70$	0.85	dnd
HD 127753 CPD-56 6330	GS:K5	070.D-0352 070.D-0352	52678.328 52678.328	600B 600B	$43 \pm 18$ $85 \pm 252$	0.91 0.72	$10 \pm 15$ $317 \pm 255$	0.68 0.74	-nn
CPD=56 6330 CPD=56 6330	MS:A2 MS:A2	070.D-0352 070.D-0352	52678.349	600B	$-200 \pm 91$	0.72	$136 \pm 87$	0.74	nnn ndn
HD 127972	MS:B1:E	070.D-0332 075.D-0507	53475.222	1200g	$-260 \pm 91$ $-63 \pm 45$	0.77	$-27 \pm 47$	0.72	nnn
HD 127973	MS:B1:E	077.D-0406	53862.327	600B	$2 \pm 18$	0.84	$-12 \pm 16$	0.71	nnn
HD 127835	MS:B8	070.D-0352	52678.378	600B	$101 \pm 70$	0.75	$-63 \pm 64$	0.63	nnn
CPD-56 6334	MS:B9	070.D-0352	52678.328	600B	$-266 \pm 248$	0.67	$525 \pm 264$	0.75	nnn
CPD-56 6334	MS:B9	070.D-0352	52678.349	600B	$99 \pm 93$	0.73	$50 \pm 93$	0.74	nnn
HD 127575	MS:B9:M.AP	073.D-0464	53079.388	600B	$869 \pm 56$	1.05	$-74 \pm 53$	0.93	DDD
NGC 5662 118	MS:K5	070.D-0352	52678.349	600B	$-25 \pm 35$	0.72	$-47 \pm 33$	0.65	-nn
NGC 5662 126	MS:A1	070.D-0352	52678.328	600B	$474 \pm 322$	0.72	$-207 \pm 317$	0.70	nnn
NGC 5662 126	MS:A1	070.D-0352	52678.349	600B	$223 \pm 99$	0.75	$27 \pm 99$	0.76	nnn
HD 127866	GS:B8	070.D-0352	52678.328	600B	$-226 \pm 97$	0.65	$-37 \pm 101$	0.69	nnn
HD 127866 CSI-56-14322	GS:B8 MS:A8	070.D-0352 070.D-0352	52678.349 52678.378	600B 600B	$75 \pm 204$ $521 \pm 207$	0.90 0.70	$-71 \pm 187$ $162 \pm 195$	0.75 0.63	nnn dnn
NGC 5662 CLB149	??:K	070.D-0352 070.D-0352	52678.378	600B	$141 \pm 65$	0.70	$102 \pm 193$ $21 \pm 62$	0.03	-nn
NGC 5662 CLB137	MS:A8	070.D-0352	52678.378	600B	$-510 \pm 323$	0.76	$-24 \pm 322$	0.76	nnn
HD 127900	GS:B8	070.D-0352	52678.378	600B	$16 \pm 43$	0.65	$-132 \pm 44$	0.68	nnn
HD 127924	MS:B8	070.D-0352	52678.378	600B	$46 \pm 68$	0.68	$-62 \pm 67$	0.65	nnn
HD 128585	MS:B3:SPB	079.D-0241	54344.981	600B	$48 \pm 59$	0.76	$20 \pm 61$	0.80	nnn
HD 128775	MS:B9:M.AP	073.D-0464	53120.236	600B	$-311 \pm 54$	1.43	$-26 \pm 45$	1.02	ddD
HD 128974	MS:A0:AP	071.D-0308	52824.144	600B	$-46 \pm 52$	0.86	$16 \pm 54$	0.95	nnn
HD 128898	MS:A7:M.AP.ROAP	069.D-0210	52383.300	600B	$-311 \pm 27$	3.92	$1 \pm 15$	1.21	DDD
HD 128898	MS:A7:M.AP.ROAP	069.D-0210	52383.325	600R	$-436 \pm 107$	1.20	$-67 \pm 103$	1.10	ndd
HD 129557	GS:B3:BCEP	078.D-0140	54158.228	600B	$25 \pm 37$	0.96	$13 \pm 38$	0.88	nnn
HD 129929 HD 129929	MS:B2:BCEP MS:B2:BCEP	075.D-0295 078.D-0140	53572.053	1200g 600B	$-46 \pm 38$	0.99 0.98	$-38 \pm 37$ $-23 \pm 64$	0.93	nnn
HD 129929 HD 129929	MS:B2:BCEP MS:B2:BCEP	078.D-0140 079.D-0241	54177.217 54343.980	600B	$52 \pm 63$ $-29 \pm 33$	0.98 0.76	$-23 \pm 64$ $6 \pm 38$	0.84 0.72	nnn nnn
HD 130158	MS:B9:AP	079.D-0241 071.D-0308	52824.176	600B	$-29 \pm 33$ $4 \pm 65$	0.76	$-107 \pm 66$	0.72	nnn
HD 130158	MS:B9:AP	071.D-0308 073.D-0464	53116.312	600B	$1 \pm 46$	1.02	$-107 \pm 00$ $66 \pm 55$	1.00	nnn
NLTT 38356	WD:DA7:HPM	080.D-0521	54556.356	600B	$1107 \pm 2255$	1.00	$1640 \pm 2301$	1.03	n-n
HD 130557	MS:B9:AP	071.D-0308	52853.058	600B	$-39 \pm 62$	0.84	$20 \pm 61$	0.84	nnn
HD 130557	MS:B9:AP	073.D-0464	53144.267	600B	$-26 \pm 42$	0.98	$-98 \pm 44$	1.06	nnn
HD 129899	MS:A0:M.AP	073.D-0464	53120.295	600B	$579 \pm 39$	1.15	$41 \pm 35$	0.92	DDD

Table 5. continued.

C4	C1:64:	Don - ID	MID		/B \ (C)	. 2 /	(M) (C)	. 2 /	ПТ
Star HD 131120	Classification MS:B7:HEW	Prog. ID 071.D-0308	MJD 52824.160	grism 600B	$\frac{\langle B_z \rangle (G)}{-57 \pm 118}$	$\frac{\chi^2/\nu}{0.99}$	$\frac{\langle N_z \rangle (G)}{-35 \pm 119}$	$\frac{\chi^2/\nu}{1.00}$	HmT nnn
HD 131120	MS:B7:HEW	071.D 0300	53020.357	600B	$46 \pm 50$	0.78	$-82 \pm 51$	0.82	nnn
HD 131120	MS:B7:HEW	072.D-0377	53030.366	600B	$148 \pm 109$	0.85	$-84 \pm 134$	0.86	nnn
HD 131120	MS:B7:HEW	073.D-0466	53225.027	600B	$83 \pm 50$	0.97	$-61 \pm 47$	0.88	nnn
HD 131120	MS:B7:HEW	073.D-0466	53234.102	600B	$-54 \pm 86$	1.50	$-7 \pm 90$	1.61	nnn
HD 131058	MS:B3:SPB	075.D-0295	53454.220	1200g	$-99 \pm 57$	1.09	$-94 \pm 54$	0.97	nnn
HD 132200 HD 132322	MS:B2:BCEP MS:A7:M.AP	079.D-0241 073.D-0464	54343.994 53111.311	600B 600B	$-62 \pm 62$ 393 ± 33	0.77 1.79	$-200 \pm 80$ $8 \pm 25$	0.78 1.05	nnn dDD
HD 132947	PM:A0	073.D-0404 072.C-0447	53064.419	600B	$329 \pm 116$	1.79	$-316 \pm 117$	1.05	nnn
HD 134305	MS:A6:M.AP	073.D-0464	53144.301	600B	$319 \pm 36$	1.13	$-30 \pm 33$	0.95	nDD
HD 133792	MS:A0:AP	071.D-0308	52853.070	600B	$89 \pm 55$	0.86	$-82 \pm 54$	0.81	nnn
HD 133792	MS:A0:AP	073.D-0464	53120.312	600B	$66 \pm 36$	1.17	$-16 \pm 31$	0.87	nnn
HD 135344B	PM:F8:CSD	081.C-0410	54609.243	600B	$-14 \pm 17$	0.79	$16 \pm 17$	0.75	nnn
HD 135344B	PM:F8:CSD	081.C-0410	54610.144	600B	$1 \pm 17$	0.83	$-29 \pm 16$	0.75	nnn
HD 135240 HD 135240	GS:O7 GS:O7	075.D-0432 075.D-0432	53475.243 53487.263	600B 600B	$11 \pm 70$ $-15 \pm 61$	0.97 0.99	$-42 \pm 66$ $17 \pm 59$	0.85 0.93	nnn nnn
HD 135240	GS:O7	075.D-0432	53553.103	600B	$-74 \pm 65$	0.93	$17 \pm 39$ $140 \pm 64$	0.90	nnn
HD 135591	GS:07	075.D-0432	53487.242	600B	$-44 \pm 53$	1.07	$14 \pm 50$	0.97	nnn
HD 135591	GS:O7	075.D-0432	53553.081	600B	$4 \pm 55$	1.08	$49 \pm 57$	1.05	nnn
HD 135591	GS:O7	075.D-0432	53571.066	600B	$37 \pm 107$	0.77	$109 \pm 112$	0.84	nnn
HD 135591	GS:O7	075.D-0432	53571.081	600B	$38 \pm 65$	0.97	$-6 \pm 67$	0.99	nnn
NLTT 40020	MS:G5:HPM	080.D-0521	54555.342	600B	$919 \pm 896$	0.74	70 . 45	0.72	nnn
HD 136504 HD 136933	MS:B2:M.BCEP.SB MS:A0:AP	079.D-0241 071.D-0308	54344.999 52823.220	600B 600B	$-137 \pm 38$ $-186 \pm 61$	0.80 0.96	$79 \pm 45$ $-23 \pm 64$	0.73 0.95	nnd ndd
HD 137432	MS:B4:E	071.D-0308 075.D-0507	53532.162	1200g	$-180 \pm 01$ $-101 \pm 47$	1.86	$-23 \pm 04$ $-39 \pm 47$	1.83	nnn
HD 137949	MS:F3:M.AP.ROAP	069.D-0210	52383.370	600B	$2682 \pm 69$	38.86	$19 \pm 11$	1.00	DDD
HD 137949	MS:F3:M.AP.ROAP	069.D-0210	52383.408	600R	$2871 \pm 64$	7.07	$18 \pm 24$	1.01	DDD
HD 137949	MS:F3:M.AP.ROAP	079.D-0240	54209.285	600B	$2502 \pm 40$	3.81	$63 \pm 18$	0.78	DDD
HD 137949	MS:F3:M.AP.ROAP	079.D-0240	54230.282	600B	$2342 \pm 78$	4.16	$91 \pm 35$	0.85	DDD
HD 137949	MS:F3:M.AP.ROAP	079.D-0240	54272.049	600B	$2457 \pm 41$	3.59	$-14 \pm 19$	0.76	DDD
HD 137949 HD 137949	MS:F3:M.AP.ROAP MS:F3:M.AP.ROAP	079.D-0240 079.D-0240	54280.997 54308.016	600B 600B	$2512 \pm 44$ $2417 \pm 41$	2.79 3.53	$-25 \pm 23$ $12 \pm 19$	0.77 0.74	DDD DDD
HD 138764	MS:B6:SPB	072.D-0240	52904.016	600B	$169 \pm 81$	0.84	$-28 \pm 83$	0.74	nnn
HD 138764	MS:B6:SPB	075.D-0295	53454.234	1200g	$11 \pm 168$	1.16	$66 \pm 169$	1.19	nnn
HD 138769	MS:B3:SPB.P	072.D-0377	52904.015	600B	$27 \pm 62$	0.31	$-190 \pm 63$	0.32	nnn
HD 138769	MS:B3:SPB.P	073.D-0466	53144.019	600B	$-432 \pm 53$	0.98	$243 \pm 60$	0.94	DdD
HD 138769	MS:B3:SPB.P	073.D-0466	53202.028	600B	$-157 \pm 211$	0.83	250 - 216	1 14	nnn
HD 138769 HD 138769	MS:B3:SPB.P MS:B3:SPB.P	073.D-0466 073.D-0466	53202.046 53225.002	600B 600B	$-605 \pm 218$ $-425 \pm 130$	1.19 0.82	$250 \pm 216$ $-94 \pm 130$	1.14 0.81	dnn nnd
HD 138769	MS:B3:SPB.P	073.D-0466	53227.130	600B	$-364 \pm 317$	0.82	−9 <del>4</del> ± 130	0.61	nnn
HD 138769	MS:B3:SPB.P	073.D-0466	53234.117	600B	$-42 \pm 45$	0.92	$112 \pm 46$	0.97	nnn
HD 138769	MS:B3:SPB.P	072.D-0377	52908.022	600B	$-243 \pm 75$	0.72	$-133 \pm 77$	0.75	nnd
NLTT 40636	MS:G:HPM	080.D-0521	54555.382	600B	$-2802 \pm 1184$	0.77			dnn
NLTT 40636	MS:G:HPM	080.D-0521	54557.340	600B	$-1246 \pm 1165$	0.75	66 . 20	0.02	nnn
HD 138758 HD 139614	MS:B9:M.AP PM:A7:E	073.D-0464 072.D-0377	53086.328 52904.040	600B 600B	$468 \pm 33$ $-78 \pm 64$	1.14 0.91	$-66 \pm 30$ $-25 \pm 62$	0.92 0.88	DDD
HD 139614	PM:A7:E	072.D-0377 081.C-0410	54610.201	600B	$-78 \pm 04$ $-19 \pm 20$	0.91	$-23 \pm 62$ $3 \pm 20$	0.38	nnn nnn
HD 139614	PM:A7:E	074.C-0463	53405.373	1200g	$29 \pm 22$	1.28	$-14 \pm 20$	1.08	nnn
LSE 125	CP	075.D-0289	53525.236	600B	$-168 \pm 119$	1.17	$-139 \pm 125$	1.08	nnn
LSE 125	CP	075.D-0289	53526.208	600B	$277 \pm 143$	0.94	$-399 \pm 176$	0.97	nnn
LSE 125	CP	075.D-0289	53527.266	600B	$453 \pm 236$	1.09	40 - 70		nnn
HD 140873 HD 140873	GS:B8:SPB.SB	073.D-0466	53151.192	600B	$27 \pm 52$	0.98	$48 \pm 50$	0.90	nnn
HD 140873 HD 140873	GS:B8:SPB.SB GS:B8:SPB.SB	075.D-0295 075.D-0295	53454.247 53572.083	1200g 1200g	$-158 \pm 91$ $-248 \pm 146$	0.98 1.11	$-41 \pm 96$ $486 \pm 147$	1.08 1.14	nnn nnn
HD 140873	GS:B8:SPB.SB	078.D-0233	54179.298	600B	$11 \pm 55$	0.87	$212 \pm 52$	0.80	nnn
HD 140873	GS:B8:SPB.SB	079.D-0241	54344.012	600B	$-36 \pm 36$	0.79	$-35 \pm 35$	0.77	nnn
HD 141569	PM:B9:E	072.C-0447	53062.343	600B	$-65 \pm 46$	1.18	$-233 \pm 39$	0.81	nnn
HD 142378	MS:B2	079.D-0241	54344.024	600B	$92 \pm 48$	0.71	$-111 \pm 63$	0.80	nnn
HD 142666	PM:A8:E	072.C-0447	53063.355	600B	$32 \pm 46$	1.09	$-40 \pm 43$	0.95	nnn
HD 143309 HD 143309	GS:B8:SPB GS:B8:SPB	073.D-0466 073.D-0466	53151.220 53225.056	600B 600B	$-94 \pm 84$ $172 \pm 90$	1.13 0.91	$209 \pm 96$ $88 \pm 83$	0.98 0.85	nnn
HD 143309 HD 143309	GS:B8:SPB	073.D-0466	53223.036	600B	$172 \pm 90$ $15 \pm 56$	0.91	$38 \pm 66$	0.85	nnn nnn
HD 143309	SG:B8:SPB	075.D-0400 075.D-0295	53454.280	1200g	$35 \pm 42$	1.02	$-27 \pm 39$	0.93	nnn
HD 144432	PM:A9:E	072.D-0377	52900.991	600B	$70 \pm 56$	0.96	$-31 \pm 56$	0.95	nnn
HD 144432	PM:A9:E	081.C-0410	54609.384	600B	$5 \pm 33$	0.84	$15 \pm 37$	0.83	nnn
HD 144432	PM:A9:E	072.C-0447	53062.401	600B	$-42 \pm 29$	1.73	$30 \pm 26$	1.48	nnn
HD 144432	PM:A9:E	074.C-0463	53447.352	1200g	$-122 \pm 21$	1.26	$-3 \pm 19$	1.01	dDD

Table 5. continued.

Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
HD 144667	PM:A1	079.D-0241	54344.101	600B	$-91 \pm 44$	0.85	$101 \pm 41$	0.75	nnn
HD 144668	PM:A7:E.DSCT	072.C-0447	53063.402	600B	$15 \pm 24$	1.08	$41 \pm 22$	0.90	nnn
HD 144668	PM:A7:E.DSCT	072.D-0377	52901.007	600B	$-77 \pm 85$	0.94	$-239 \pm 85$	0.94	nnn
HD 144668	PM:A7:E.DSCT	073.D-0464	53120.254	600B	$43 \pm 42$	0.99	$43 \pm 40$	0.98	nnn
HD 144668	PM:A7:E.DSCT	075.D-0295	53461.405	1200g	$51 \pm 103$	1.01	$113 \pm 101$	0.97	nnn
HD 144668	PM:A7:E.DSCT	081.C-0410	54610.238	600B	$-89 \pm 29$	0.83	$29 \pm 27$	0.77	nnd
HD 144668	PM:A7:E.DSCT	074.C-0463	53447.379	1200g	$434 \pm 234$	1.23	$162 \pm 244$	1.34	nnn
HD 145102	MS:B9:AP	071.D-0308	52763.315	600B	$-70 \pm 77$	0.88	$-70 \pm 73$	0.82	nnn
NGC 6025 129	MS:A0	073.D-0498	53199.086	600B	$-43 \pm 50$	0.50	$-36 \pm 50$	0.50	nnn
CPD-57 7817 TYC8719-717-1	MS:B8:M.AP MS:B7	073.D-0498 073.D-0498	53199.086 53199.086	600B 600B	$-620 \pm 50$ $30 \pm 61$	0.54 0.52	$20 \pm 48$ $12 \pm 60$	0.49 0.51	DdD
HD 146484	MS:B7	073.D-0498 070.D-0352	52679.371	600B	$-150 \pm 82$	0.32	$78 \pm 78$	0.51	nnn
HD 146555	MS:A0:M.AP	070.D-0352 070.D-0352	52679.371	600B	$-130 \pm 82$ $475 \pm 93$	0.78	$284 \pm 85$	0.71	nnn dnD
NGC 6087 91	MS:A8	070.D-0352	52679.371	600B	$-75 \pm 200$	0.77	$-317 \pm 202$	0.79	nnn
16:20:05 -57:53:28	??:M	070.D-0352	52679.371	600B	$-56 \pm 82$	0.76	$-149 \pm 83$	0.80	-nn
CPD-57 7883	??:M	070.D-0352	52679.371	600B	$66 \pm 26$	0.90	$-3 \pm 25$	0.83	-nn
HD 147084	GS:A4:V	077.D-0556	53975.968	1200B	$54 \pm 22$	1.32	$8 \pm 19$	1.01	nnn
WD 1620-391	WD:DA2	069.D-0210	52383.426	600B	$297 \pm 766$	0.99			n-n
WD 1620-391	WD:DA2	069.D-0210	52383.431	600R	$703 \pm 1112$	1.11			n-n
WD 1620-391	WD:DA2	073.D-0356	53136.301	600B	$177 \pm 338$	0.85	$-677 \pm 353$	0.78	n-n
WD 1620-391	WD:DA2	073.D-0356	53143.322	600B	$-56 \pm 498$	1.07	$99 \pm 506$	1.02	n-n
WD 1620-391	WD:DA2	073.D-0356	53147.255	600B	$-5 \pm 296$	0.88	$-91 \pm 328$	0.90	n-n
WD 1620-391	WD:DA2	073.D-0356	53151.070	600B	$9 \pm 416$	0.95	$1025 \pm 450$	0.96	n-n
WD 1620-391	WD:DA2	080.D-0521	54529.391	600B	$-3134 \pm 2204$	0.78			n-n
LS IV -12 1	SD:O	075.D-0352	53566.068	600B	$206 \pm 231$	1.07	$-412 \pm 272$	0.99	nnn
HD 147869	MS:A1:AP	071.D-0308	52763.327	600B	$-77 \pm 64$	0.83	$86 \pm 66$	0.88	nnn
HD 147869	MS:A1:AP	073.D-0464	53144.318	600B	$-33 \pm 36$	0.95	$42 \pm 37$	0.99	nnn
HD 148112	MS:A0:AP	071.D-0308	52763.338	600B	$-111 \pm 54$	0.92	$131 \pm 56$	0.99	nnn
HD 148184	MS:B1:P.E	075.D-0507	53532.224	1200g	$23 \pm 56$	0.69	$137 \pm 65$	0.93	-nn
HD 148184	MS:B1:P.E	077.D-0406	53862.380	600B	$54 \pm 52$	1.07	$-104 \pm 44$	0.74	-nn
HD 148259	MS:B2:E MS:B2:E	075.D-0507 075.D-0507	53532.195	1200g	$248 \pm 134$	1.55 1.10	$-38 \pm 130$	1.48 0.92	nnn
HD 148259 HD 148898	MS:A6:AP	071.D-0308	53572.104 52763.349	1200g 600B	$14 \pm 56$ $204 \pm 62$	0.93	$75 \pm 52$ -97 \pm 60	0.92	nnn ndd
HD 148937	MS:O6:M.FP	080.D-0383	54550.416	600B	$-142 \pm 79$	0.78	$-97 \pm 00$ $20 \pm 96$	0.87	nnn
HD 149382	SD:OB	075.D-0352	53458.390	600B	$74 \pm 688$	1.16	$768 \pm 733$	1.33	nnn
HD 149257	SG:B1	073.D-0498	53199.116	600B	$159 \pm 60$	0.52	$-120 \pm 60$	0.52	dnn
HD 149277	MS:B2:M.HES	073.D-0498	53199.116	600B	$2298 \pm 97$	0.53	$94 \pm 90$	0.48	DDD
HD 149822	MS:B9:M.AP	071.D-0308	52763.361	600B	$-712 \pm 49$	1.08	$17 \pm 43$	0.87	DDD
HD 149757	MS:O9:E	081.C-0410	54609.345	600B	$118 \pm 61$	0.79	$10 \pm 65$	0.93	nnn
HD 149764	MS:A0:M.AP	071.D-0308	52763.374	600B	$-1188 \pm 67$	0.88	$20 \pm 68$	0.90	DdD
HD 149764	MS:A0:M.AP	073.D-0464	53120.331	600B	$73 \pm 50$	1.51	$-48 \pm 44$	0.93	nnn
HD 150193	PM:A0:E	081.C-0410	54609.093	600B	$-245 \pm 39$	0.83	$-1 \pm 39$	0.83	DdD
CD-48 11050	MS:A2	073.D-0498	53199.145	600B	$-81 \pm 85$	0.53	$-82 \pm 84$	0.51	nnn
CD-48 11050	MS:A2	073.D-0498	53210.119	600B	$-45 \pm 52$	0.48	$82 \pm 50$	0.43	nnn
CD-48 11051	MS:B1:M.HES	073.D-0498	53199.145	600B	$-2196 \pm 97$	0.56	$82 \pm 93$	0.51	DDD
CD-48 11051	MS:B1:M.HES	073.D-0498	53210.119	600B	$-2011 \pm 65$	0.58	$-90 \pm 60$	0.48	DDD
CD-48 11059	MS:B3	073.D-0498	53199.145	600B	$314 \pm 145$	0.52	$-142 \pm 144$	0.52	nnn
CD-48 11059	MS:B3	073.D-0498	53210.119	600B	$136 \pm 94$	0.53	$-49 \pm 91$	0.50	nnn
CD-48 11060 CD-48 11060	MS:B3 MS:B3	073.D-0498 073.D-0498	53199.145 53210.119	600B 600B	$-6 \pm 116$	0.48	$-17 \pm 119$	0.51 0.53	nnn
HD 150562	MS:A5:M.AP	073.D-0498 079.D-0240	54208.382	600B	$-83 \pm 76$ $1853 \pm 46$	0.48 1.50	$-64 \pm 79$ $-4 \pm 33$	0.33	nnn DDD
HD 150562	MS:A5:M.AP	079.D-0240 079.D-0240	54238.251	600B	$1904 \pm 47$	1.57	$-4 \pm 33$ $16 \pm 33$	0.78	DDD
HD 150562	MS:A5:M.AP	079.D-0240	54247.083	600B	$1878 \pm 44$	1.63	$-38 \pm 30$	0.76	DDD
HD 150502	MS:A0:AP	071.D-0308	52763.386	600B	$-78 \pm 61$	1.05	$55 \pm 56$	0.91	nnn
HD 150549	MS:A0:AP	073.D-0464	53116.386	600B	$-65 \pm 41$	0.87	$-6 \pm 39$	0.82	nnn
HD 150549	MS:A0:AP	073.D-0464	53120.350	600B	$-80 \pm 32$	0.95	$26 \pm 32$	0.90	nnn
HD 151525	MS:B9:M.AP	071.D-0308	52733.395	600B	$17 \pm 78$	0.88	$-41 \pm 92$	0.83	nnn
HD 151525	MS:B9:M.AP	071.D-0308	52763.397	600B	$205 \pm 71$	0.94	$-118 \pm 68$	0.86	nnn
HD 151804	SG:O8	075.D-0432	53476.371	600B	$31 \pm 197$	0.98	$-115 \pm 218$	1.02	nnn
HD 151804	SG:O8	075.D-0432	53571.025	600B	$-142 \pm 100$	1.00	$-124 \pm 94$	0.89	nnn
HD 151804	SG:O8	075.D-0432	53596.061	600B	$288 \pm 69$	0.91	$-231 \pm 68$	0.89	ndd
HD 152404	PM:F5:E	081.C-0410	54609.311	600B	$-42 \pm 19$	0.80	$-24 \pm 19$	0.76	nnn
HD 152408	SG:O8:P.E	075.D-0432	53556.214	600B	$-52 \pm 129$	1.22	$121 \pm 110$	0.88	nnn
HD 152408	SG:O8:P.E	075.D-0432	53571.103	600B	$195 \pm 280$	1.08	$-219 \pm 244$	0.82	nnn
HD 152408	SG:O8:P.E	075.D-0432	53596.081	600B	$9 \pm 116$	1.06	$77 \pm 102$	0.85	nnn
HD 152635	GS:B7:SPB	079.D-0241	54344.041	600B	$-99 \pm 30$	0.84	$37 \pm 30$	0.86	dnd
HD 152511	MS:B5:M.SPB	079.D-0241	54344.116	600B	$600 \pm 51$	0.74	$113 \pm 62$	0.75	DnD

Table 5. continued.

Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
HD 152511	MS:B5:M.SPB	081.C-0410	54610.223	600B	$113 \pm 35$	0.91	$-43 \pm 33$	0.80	dnd
HD 152511	MS:B5:M.SPB	060.A-9203	54608.158	600B	$69 \pm 33$	0.85	$-68 \pm 36$	0.87	nnn
HD 152511	MS:B5:M.SPB	081.C-0410	54609.433	600B	$429 \pm 49$	0.66	$144 \pm 48$	0.62	DnD
HD 153261	MS:B2:E	075.D-0507	53532.252	1200g	$72 \pm 96$	0.78	$-173 \pm 87$	0.66	nnn
HD 322676	MS:A0	073.D-0498	53219.234	600B	$-176 \pm 97$	0.49	$117 \pm 96$	0.48	nnn
HD 323673	MS:A0	073.D-0498	53219.234	600B	$-182 \pm 81$	0.54	$-68 \pm 83$	0.57	nnn
HD 153948	MS:A2:M.AP	073.D-0498	53219.234	600B	$209 \pm 54$	0.58	$39 \pm 55$	0.59	nnd
HD 153716	MS:B5 CP	079.D-0241	54344.057	600B 600B	$-70 \pm 48$	0.78	$-79 \pm 58$	0.78	nnn
PN H 2-1 PN H 2-1	CP CP	075.D-0289 075.D-0289	53525.325 53527.202	600B					_
HD 154072	CP CP	075.D-0289	53526.295	600B	$7 \pm 169$	1.21	$-233 \pm 190$	1.14	nnn
HD 154072	CP	075.D-0289	53520.293	600B	$13 \pm 193$	1.00	$-233 \pm 190$ $503 \pm 201$	0.98	nnn
HD 154708	MS:A2:M.AP.ROAP	073.D-0269 073.D-0464	53120.376	600B	$9227 \pm 141$	37.11	$-43 \pm 24$	1.10	DDD
HD 154708	MS:A2:M.AP.ROAP	075.D-0295	53487.308	1200g	$7178 \pm 109$	50.59	$-34 \pm 15$	0.95	DDD
HD 154708	MS:A2:M.AP.ROAP	075.D-0295	53570.998	1200g	$9001 \pm 193$	2.63	$-158 \pm 142$	1.43	DDD
HD 154708	MS:A2:M.AP.ROAP	079.D-0240	54197.369	600B	$9516 \pm 168$	10.01	$-11 \pm 46$	0.79	DDD
HD 154708	MS:A2:M.AP.ROAP	079.D-0240	54209.307	600B	$8853 \pm 82$	13.87	$-30 \pm 19$	0.80	DDD
HD 154708	MS:A2:M.AP.ROAP	079.D-0240	54215.279	600B	$8357 \pm 78$	10.33	$-40 \pm 21$	0.79	DDD
HD 154708	MS:A2:M.AP.ROAP	079.D-0240	54223.173	600B	$7542 \pm 79$	14.08	$38 \pm 18$	0.81	DDD
HD 154708	MS:A2:M.AP.ROAP	079.D-0240	54238.283	600B	$7084 \pm 76$	4.79	$9 \pm 29$	0.77	DDD
HD 154708	MS:A2:M.AP.ROAP	079.D-0240	54247.172	600B	$8556 \pm 81$	6.31	$17 \pm 27$	0.74	DDD
HD 154708	MS:A2:M.AP.ROAP	079.D-0240	54254.121	600B	$7097 \pm 77$	3.63	$39 \pm 35$	0.78	DDD
HD 154708	MS:A2:M.AP.ROAP	079.D-0240	54258.249	600B	$8314 \pm 79$	6.69	$1 \pm 25$	0.75	DDD
HD 154708	MS:A2:M.AP.ROAP	079.D-0240	54270.309	600B	$7152 \pm 72$	9.38	$21 \pm 19$	0.75	DDD
HD 154708	MS:A2:M.AP.ROAP	079.D-0240	54279.166	600B	$8761 \pm 81$	14.53	$9 \pm 18$	0.79	DDD
HD 154708	MS:A2:M.AP.ROAP	079.D-0240	54287.225	600B	$6996 \pm 115$	1.52	$80 \pm 84$	0.82	DDD
HD 154708	MS:A2:M.AP.ROAP	079.D-0240	54305.153	600B	$8730 \pm 83$	11.07	$16 \pm 22$	0.80	DDD
HD 154708	MS:A2:M.AP.ROAP	079.D-0240	54307.021	600B	$7777 \pm 73$	13.41	$46 \pm 17$	0.77	DDD
HD 154708 HD 155379	MS:A2:M.AP.ROAP MS:A0	079.D-0240 071.D-0308	54297.302 52763.410	600B 600B	$7112 \pm 78$ $106 \pm 67$	3.53 0.85	$32 \pm 34$ $67 \pm 83$	$0.74 \\ 0.88$	DDD
HD 155379 HD 155379	MS:A0	071.D-0308 073.D-0464	53137.393	600B	$100 \pm 07$ $29 \pm 38$	0.83	$-33 \pm 39$	1.01	nnn ndn
HD 155806	MS:O7:E	075.D-0404 075.D-0432	53476.398	600B	$2 \pm 112$	0.90	$-71 \pm 108$	0.82	nnn
HD 155806	MS:O7:E	075.D-0432	53532.306	600B	$47 \pm 59$	1.09	$9 \pm 57$	1.02	nnn
HD 155806	MS:O7:E	075.D-0432	53556.235	600B	$-70 \pm 89$	0.85	$-100 \pm 116$	0.95	nnn
HD 155806	MS:O7:E	075.D-0507	53532.283	1200g	$38 \pm 66$	1.07	$126 \pm 64$	0.99	nnn
HD 155806	MS:O7:E	080.D-0383	54549.403	600B	$-123 \pm 80$	0.74	$57 \pm 99$	0.74	nnn
HD 157056	MS:B2:BCEP	075.D-0295	53532.324	1200g	$-18 \pm 25$	1.10	$-27 \pm 24$	1.02	nnn
HD 157056	MS:B2:BCEP	075.D-0295	53572.122	1200g	$-45 \pm 48$	0.91	$-97 \pm 48$	0.88	nnn
HD 157751	MS:B9:M.AP	071.D-0308	52793.271	600B	$4108 \pm 76$	2.80	$-14 \pm 43$	0.93	DDD
HD 157751	MS:B9:M.AP	073.D-0464	53116.404	600B	$3889 \pm 67$	3.99	$14 \pm 38$	1.27	DDD
HD 158643	PM:A0	081.C-0410	54609.275	600B	$-74 \pm 29$	0.81	$-24 \pm 30$	0.74	nnn
HD 158427	MS:B2:E	077.D-0406	53869.353	600B	$-27 \pm 38$	1.05	$-12 \pm 41$	1.23	nnn
NGC 6383 28	MS:A0	073.D-0498	53220.182	600B	$77 \pm 126$	0.74	$-80 \pm 122$	0.69	nnn
NGC 6383 700	MS:A3:P	073.D-0498	53220.182	600B	$130 \pm 121$	0.74	$251 \pm 121$	0.72	nnn
NGC 6383 26 HD 317857	PM:A2:E.P MS:A1:M.AP	073.D-0498 073.D-0498	53220.182 53210.161	600B 600B	$4 \pm 153$ -1688 $\pm 74$	0.68 1.44	$-110 \pm 145$ $-22 \pm 46$	0.60 0.56	nnn DDD
NGC 6383 87	PM:A5:E.P	073.D-0498	53220.101	600B	$-1088 \pm 74$ $-77 \pm 93$	0.62	$-22 \pm 40$ 57 ± 94	0.50	nnn
HD 317846	MS:B5	073.D-0498	53220.162	600B	$-44 \pm 53$	0.55	$-53 \pm 53$	0.55	nnn
NGC 6383 102	MS:B8	073.D-0498	53210.161	600B	$277 \pm 91$	0.66	$66 \pm 77$	0.49	nnd
HD 317852	MS:F2:P	073.D-0498	53220.182	600B	$1 \pm 60$	0.65	$30 \pm 57$	0.58	nnn
HD 159217	MS:A0	077.D-0556	53976.193	600B	$115 \pm 50$	0.90	$-87 \pm 51$	0.92	nnn
HD 159312	MS:A0	077.D-0556	53976.178	600B	$156 \pm 77$	0.97	$98 \pm 79$	1.04	nnn
WD 1733-544	WD:DA8	073.D-0516	53199.178	600B	$3554 \pm 4260$	1.34	$4070 \pm 3882$	1.11	n-n
NGC 6396 PPM48	GS:B5	070.D-0352	52679.394	600B	$-562 \pm 225$	0.77	$293 \pm 228$	0.76	nnn
NGC 6396 PPM93	GS:B	070.D-0352	52679.394	600B	$-62 \pm 247$	0.68	$-322 \pm 258$	0.75	nnn
17:37:37 -35:04:20	??:F	070.D-0352	52679.394	600B	$665 \pm 374$	0.76	$-262 \pm 359$	0.77	nnn
TYC7384-506-1	??:F	070.D-0352	52679.394	600B	$-78 \pm 93$	0.72	$-325 \pm 90$	0.68	nnn
CD-34 11864	??:M4	070.D-0352	52679.394	600B	$53 \pm 40$	0.77	$-102 \pm 39$	0.72	-nn
HD 160124	MS:B3:SPB	073.D-0466	53151.259	600B	$30 \pm 54$	0.90	$23 \pm 54$	0.94	nnn
HD 160124	MS:B3:SPB	075.D-0295	53520.234	1200g	$20 \pm 78$	1.12	$117 \pm 76$	1.06	nnn
HD 160124	MS:B3:SPB	075.D-0295	53600.109	1200g	$78 \pm 46$	0.87	$38 \pm 56$	0.89	nnn
HD 160124	MS:B3:SPB	075.D-0295	53604.109	1200g	$55 \pm 35$	0.96	$-16 \pm 37$	0.82	nnn
HD 318107 HD 318108	MS:B8:M.AP MS:B9	073.D-0498 073.D-0498	53211.986 53211.986	600B 600B	$5878 \pm 67$ -112 ± 61	2.13 0.53	$-39 \pm 31$ $-20 \pm 59$	0.47 0.50	DDD nnn
HD 318109	MS:A0	073.D-0498 073.D-0498	53211.986	600B	$-112 \pm 01$ $-29 \pm 71$	0.58	$-20 \pm 39$ 87 ± 64	0.30	nnn
CD-32 13089	MS:A4	073.D-0498	53234.056	600B	$-29 \pm 71$ 34 ± 63	0.56	$-29 \pm 60$	0.40	nnn
CD-32 13093	MS:A0	073.D-0498	53234.056	600B	$-125 \pm 83$	0.50	$25 \pm 83$	0.51	nnn
		2.2.2 3170		3000	-20 = 00	0.50		J.J.	

Table 5. continued.

Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
V976 Sco	MS:A4	073.D-0498	53234.056	600B	$-209 \pm 139$	0.54	$-206 \pm 137$	0.53	nnn
HD 318100	MS:B9:M.AP	073.D-0498	53234.056	600B	$363 \pm 51$	0.52	$75 \pm 52$	0.54	DnD
NGC 6405 322	??:F5	073.D-0498	53220.098	600B	$93 \pm 46$	0.52	$-30 \pm 46$	0.53	nnn
HD 318099	MS:A0	073.D-0498	53234.056	600B	$-40 \pm 65$	0.54	$43 \pm 61$	0.47	nnn
CD-32 13119	MS:A8:AP	073.D-0498	53220.098	600B	$-62 \pm 28$	0.58	$-25 \pm 28$	0.60	nnn
HD 318095	MS:A1	073.D-0498	53220.098	600B	$83 \pm 46$	0.52	$-59 \pm 47$	0.52	nnn
HD 160578	GS:B1:BCEP	075.D-0295	53532.346	1200g	$13 \pm 33$	1.19	$-79 \pm 31$	1.06	nnn
HD 160578	GS:B1:BCEP	075.D-0295	53604.127	1200g	$47 \pm 41$	0.96	$-56 \pm 39$	0.87	nnn
CD-28 13479	GS:B2	060.A-9203	53948.239	600B	$888 \pm 1403$	1.07			nnn
HD 160917	MS:B9	075.D-0289	53527.450	600B	$101 \pm 68$	0.95	$-21 \pm 74$	0.99	nnn
HD 161044	CP	075.D-0289	53525.396	600B	$-167 \pm 111$	1.15	$-68 \pm 113$	1.17	-nn
HD 161044	CP	075.D-0289	53526.442	600B	$-15 \pm 396$	1.33	$38 \pm 409$	1.39	-nn
HD 161044	CP	075.D-0289	53527.425	600B	$123 \pm 384$	1.30	$-15 \pm 355$	1.16	-nn
HD 160468	MS:F2:AP	073.D-0464	53116.362	600B	$-55 \pm 61$	2.48	$47 \pm 62$	2.62	nnn
HD 160468	MS:F2:AP	073.D-0464	53134.319	600B	$-48 \pm 40$	1.48	$-40 \pm 34$	1.10	nnn
GJ 2131 A	MS:M1	073.D-0516	53192.133	600B	$181 \pm 84$	0.94	$-62 \pm 87$	1.01	-nn
GJ 2131 A	MS:M1	073.D-0516	53193.150	600B	$138 \pm 124$	0.42	$-70 \pm 123$	0.42	-nn
HD 161277	MS:B9:AP	073.D-0464	53134.341	600B	$66 \pm 37$	1.00	$-54 \pm 44$	0.94	nnn
HD 161459	MS:A2:M.AP.ROAP	269.D-5044	52476.123	600B	$-2118 \pm 79$	2.16	$46 \pm 57$	1.15	DDD
HD 161783	MS:B2:SPB.SB.EB	073.D-0466	53151.281	600B	$70 \pm 50$	0.78	$-78 \pm 55$	0.97	nnn
HD 161783	MS:B2:SPB.SB.EB	075.D-0295	53487.333	1200g	$-77 \pm 40$	0.95	$38 \pm 45$	0.88	nnn
HD 161783	MS:B2:SPB.SB.EB	075.D-0295	53598.108	1200g	$-185 \pm 122$	0.90	$-277 \pm 117$	0.84	nnn
HD 161783	MS:B2:SPB.SB.EB	075.D-0295	53599.118	1200g	$-3 \pm 45$	0.95	$-65 \pm 43$	0.86	nnn
HD 162305North	MS:B9:AP	073.D-0498	53220.275	600B	$18 \pm 60$	0.91	$28 \pm 61$	0.95	nnn
HD 162305South	MS:B9:AP	073.D-0498	53220.244	600B	$-66 \pm 59$	0.89	$-109 \pm 58$	0.87	nnn
HD 162305	MS:B9:AP	073.D-0498	53274.097	600B	$178 \pm 76$	0.86	$-138 \pm 79$	0.93	nnn
17:52:04 -34:55:08	??:K	073.D-0498	53240.073	600B	$218 \pm 125$	0.57	$-77 \pm 128$	0.60	-nn
HD 320765	MS:A2	073.D-0498	53240.073	600B	$-32 \pm 62$	0.47	$92 \pm 63$	0.49	nnn
HD 320764	MS:A1	073.D-0498	53240.073	600B	$-136 \pm 67$	0.48	$-155 \pm 68$	0.51	nnn
HD 162678	MS:B9	073.D-0498	53219.275	600B	$2 \pm 27$	0.55	$-13 \pm 30$	0.59	nnn
HD 162724	MS:B9	073.D-0498	53219.275	600B	$-57 \pm 38$	0.49	$-7 \pm 41$	0.49	nnn
HD 162725	MS:A0:M.AP	073.D-0498	53219.275	600B	$-44 \pm 25$	0.50	$-24 \pm 26$	0.47	nnn
HD 162725	MS:A0:M.AP	080.D-0383	54549.413	600B	$58 \pm 35$	0.76	$0 \pm 42$	0.74	nnn
HD 162978	SG:07	075.D-0432	53556.258	600B	$2 \pm 63$	0.91	$-4 \pm 64$	0.95	nnn
HD 162978	SG:07	075.D-0432	53595.116	600B	$68 \pm 74$	1.02	$-121 \pm 69$	0.89	nnn
HD 162978 HD 163472	SG:O7 MS:B2:M.BCEP	075.D-0432	53604.144	600B 600B	$44 \pm 66$	0.75 0.93	$30 \pm 72$	0.90 0.92	nnn
HD 163336	MS:A0	073.D-0466 077.D-0556	53151.298 53976.163	600B	$-201 \pm 43$ $60 \pm 48$	0.93	$85 \pm 43$ $86 \pm 50$	1.04	ndd
HD 163296	PM:A1:E	077.D-0330 081.C-0410	54610.255	600B	$-8 \pm 44$	0.94	$-64 \pm 45$	0.79	nnn nnn
HD 163296	PM:A1:E	074.C-0463	53279.016	1200g	$-56 \pm 34$	1.08	$-68 \pm 34$	0.75	nnn
HD 163254	MS:B2:SPB	074.C-0403 079.D-0241	54344.069	600B	$-50 \pm 54$ $-50 \pm 51$	0.73	$-08 \pm 54$ $-128 \pm 62$	0.70	nnn
HD 164245	MS:B7	079.D-0241	54345.140	600B	$-14 \pm 44$	0.77	$54 \pm 55$	0.75	nnn
HD 164249	MS:F5:CSD	081.C-0410	54610.301	600B	$-42 \pm 19$	0.90	$30 \pm 21$	0.75	nnn
HD 164794	MS:O4	075.D-0432	53520.356	600B	$\frac{42 \pm 15}{21 \pm 65}$	1.04	$-31 \pm 64$	1.03	nnn
HD 164794	MS:O4	075.D-0432	53594.120	600B	$199 \pm 76$	0.96	$116 \pm 74$	0.91	nnn
HD 164794	MS:O4	075.D-0432	53595.096	600B	$-27 \pm 69$	0.85	$97 \pm 76$	1.03	nnn
V426 Oph	WD:CV	079.D-0697	54311.080	1200B			7. –		_
V426 Oph	WD:CV	081.D-0670	54693.058	1200B					
V426 Oph	WD:CV	081.D-0670	54694.052	1200B					_
HD 166197	MS:B1	079.D-0241	54345.154	600B	$-56 \pm 51$	0.77	$-68 \pm 62$	0.73	nnn
HD 166469	MS:A0:AP	073.D-0464	53136.273	600B	$-2 \pm 42$	0.93	$-17 \pm 42$	0.94	nnn
BD-14 4922	GS:O9	067.D-0306	52048.283	600R	$970 \pm 547$	0.98			nnn
BD-14 4922	GS:O9	067.D-0306	52078.270	600R	$1876 \pm 875$	0.89			nnn
HD 166469	MS:A0:AP	071.D-0308	52793.291	600B	$-27 \pm 56$	1.12	$51 \pm 55$	1.09	nnn
HD 166473	MS:A5:M.AP.ROAP	079.D-0240	54209.327	600B	$2296 \pm 41$	2.79	$-20 \pm 22$	0.80	DDD
HD 166473	MS:A5:M.AP.ROAP	079.D-0240	54247.193	600B	$2257 \pm 50$	1.70	$49 \pm 34$	0.78	DDD
HD 166473	MS:A5:M.AP.ROAP	079.D-0240	54250.396	600B	$2273 \pm 43$	2.52	$-10 \pm 23$	0.75	DDD
HD 166473	MS:A5:M.AP.ROAP	079.D-0240	54308.285	600B	$2404 \pm 42$	3.06	$12 \pm 21$	0.78	DDD
HD 167263	GS:09	075.D-0432	53594.142	600B	$131 \pm 84$	1.02	$24 \pm 88$	1.12	nnn
HD 167263	GS:09	075.D-0432	53595.015	600B	$-46 \pm 61$	1.14	$-5 \pm 57$	0.99	nnn
HD 167263	GS:09	075.D-0432	53596.112	600B	$-7 \pm 54$	0.96	$47 \pm 54$	0.93	nnn
HD 167771	GS:07	075.D-0432	53520.377	600B	$-99 \pm 65$	0.93	$-44 \pm 60$	0.81	nnn
HD 167771	GS:07	075.D-0432	53594.164	600B	$-121 \pm 116$	1.25	$-70 \pm 113$	1.18	nnn
HD 167771	GS:07	075.D-0432	53594.240	600B	$47 \pm 38$	0.84	$-26 \pm 37$	0.84	nnn
HD 167771	GS:O7	075.D-0432	53595.066	600B	$39 \pm 87$	1.13	$-123 \pm 80$	0.93	nnn
HD 168957	MS:B3:E	075.D-0507	53572.158	1200g	$-30 \pm 71$	1.26	$46 \pm 68$	1.15	nnn
HD 168856	MS:B9:M.AP	073.D-0464	53144.341	600B	$-525 \pm 42$	0.98	$22 \pm 51$	0.95	DDD

Table 5. continued.

Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
HD 169033	MS:B5	079.D-0241	54344.144	600B	$-50 \pm 43$	0.77	$154 \pm 52$	0.77	nnn
HD 169142	PM:A9:E	081.C-0410	54610.175	600B	$20 \pm 24$	0.75	$60 \pm 25$	0.76	nnn
HD 169820	MS:B9:SPB	073.D-0466	53151.312	600B	$55 \pm 57$	0.89	$-78 \pm 59$	0.93	nnn
HD 169820	MS:B9:SPB	075.D-0295	53520.333	1200g	$-16 \pm 52$	0.90	$111 \pm 52$	0.89	nnn
HD 169820	MS:B9:SPB	075.D-0295	53597.112	1200g	$44 \pm 40$	1.03	$48 \pm 38$	0.92	nnn
HD 169820	MS:B9:SPB	079.D-0241	54345.124	600B	$-49 \pm 41$	0.75	$69 \pm 50$	0.75	nnn
HD 169959A	MS:A0:M.AP	073.D-0498	53192.159	600B	$-541 \pm 53$	0.89	$110 \pm 54$	0.92	DnD
HD 169467	MS:B3:SPB	079.D-0241	54345.166	600B	$-49 \pm 39$	0.92	$66 \pm 43$	0.81	nnn
HD 170054	MS:B7:AP	073.D-0498	53244.114	600B	$-23 \pm 73$	0.93	$12 \pm 73$	0.83	nnn
HD 170054	MS:B7:AP	073.D-0498	53271.057	600B	$-12 \pm 63$	0.79	$34 \pm 67$	0.90	nnn
VV Ser	PM:B:SH.E	081.C-0410	54610.332	600B	$-135 \pm 131$	0.90	$49 \pm 126$	0.81	nnn
WD 1826-045	WD:DA6	073.D-0516	53193.179	600B	$-2467 \pm 1477$	1.51	$-301 \pm 1479$	1.50	n-n
BD-19 5044 F	MS:B8	073.D-0498	53240.107	600B	$23 \pm 82$	0.56	$-75 \pm 79$	0.52	nnn
BD-19 5045	MS:B5	073.D-0498	53240.107	600B	$26 \pm 57$	0.54	$-24 \pm 53$	0.49	nnn
BD-19 5044 L	MS:B8:M.AP	073.D-0498	53240.107	600B	$-287 \pm 100$	0.54	$46 \pm 97$	0.50	nnn
BD-19 5044 M	MS:B8	073.D-0498	53240.107	600B	$-51 \pm 103$	0.51	$-161 \pm 98$	0.47	nnn
BD-19 5046	MS:A1	073.D-0498	53240.107	600B	$138 \pm 61$	0.55	$30 \pm 56$	0.47	nnn
HD 170836	MS:B8:M.AP	073.D-0498	53240.143	600B	$-637 \pm 112$	0.53	$57 \pm 109$	0.50	DnD
HD 170836	MS:B8:M.AP	073.D-0498	53245.193	600B	$-637 \pm 70$	0.50	$-55 \pm 69$	0.48	DdD
HD 170836	MS:B8:M.AP	073.D-0498	53274.121	600B	$438 \pm 83$	0.64	$37 \pm 76$	0.63	ddD
HD 170835	MS:B5	073.D-0498	53240.143	600B	$-293 \pm 187$	0.51	$-61 \pm 194$	0.56	nnn
HD 170835	MS:B5	073.D-0498	53245.193	600B	$-69 \pm 125$	0.52	$33 \pm 124$	0.52	nnn
HD 170835	MS:B5	073.D-0498	53274.121	600B	$-51 \pm 159$	0.65	$-306 \pm 149$	0.64	nnn
HD 170860A	MS:B8:AP	073.D-0498	53221.278	600B	$27 \pm 84$	0.88	$-102 \pm 83$	0.87	nnn
HD 171184	MS:A0:M.AP	071.D-0308	52880.028	600B	$119 \pm 40$	0.88	$-27 \pm 40$	0.87	dnn
HD 171184	MS:A0:M.AP	073.D-0464	53144.368	600B	$-32 \pm 42$	1.30	$32 \pm 41$	1.26	nnn
HD 171034	MS:B2:BCEP	079.D-0241	54344.131	600B	$9 \pm 33$	0.83	$99 \pm 34$	0.87	nnn
HD 171279	MS:A0:AP	073.D-0464	53144.393	600B	$-54 \pm 34$	1.10	$-65 \pm 31$	0.93	nnn
HD 171858	SD:B	075.D-0352	53512.357	600B	$-28 \pm 132$	0.85	$42 \pm 166$	0.88	nnn
HD 172032	MS:A9:AP	073.D-0464	53151.105	600B	$-148 \pm 38$	1.12	$40 \pm 35$	0.97	ndd
BD-12 5133	MS:B1	060.A-9203	52822.396	600B	$-38 \pm 1237$	1.08	$-1008 \pm 1224$	1.06	nnn
BD-12 5133	MS:B1	060.A-9203	52900.106	600B	$-18 \pm 1090$	0.92	7 . 42	0.70	nnn
HD 172910	MS:B2:BCEP	079.D-0241	54345.178	600B	$-50 \pm 35$ $-29 \pm 24$	0.80	$-7 \pm 43$	0.78	nnn
HD 172555	MS:A7:CSD	081.C-0410	54610.287	600B		0.78	$-19 \pm 24$	0.76	nnn
WD 1845+019 WD 1845+019	WD:DA2 WD:DA2	073.D-0356 073.D-0356	53131.395 53136.389	600B 600B	$244 \pm 811$ $-41 \pm 692$	1.00 0.88	$532 \pm 953$ $565 \pm 894$	0.93 1.05	n-n
HD 174240	MS:A1	073.D-0336 077.D-0556	53976.208	600B	$-41 \pm 692$ $18 \pm 50$	0.88	$303 \pm 894$ $2 \pm 49$	0.96	n-n nnn
HD 174240 HD 175744	MS:B9:AP	071.D-0308	52880.054	600B	$101 \pm 64$	0.90	$98 \pm 78$	0.90	nnn
HD 175744	MS:B9:AP	071.D-0308	52901.019	600B	$319 \pm 88$	1.01	$-120 \pm 87$	0.88	nnd
HD 175640	GS:B9	071.D-0308	52901.032	600B	$20 \pm 92$	1.04	$-112 \pm 91$	1.01	nnn
HD 175640	GS:B9	072.D-0377	52901.043	600B	$83 \pm 82$	0.96	$22 \pm 101$	0.92	nnn
HD 176386	PM:B9:E	081.C-0410	54610.272	600B	$-87 \pm 41$	0.77	$-41 \pm 41$	0.78	nnn
TY Cra	PM:B8:E	074.C-0442	53331.030	600B	$-79 \pm 170$	1.37	$105 \pm 157$	1.18	n-n
TY Cra	PM:B8:E	074.C-0442	53332.028	1200g	$145 \pm 131$	1.08	$81 \pm 119$	0.90	nnn
CD-51 11879	SD:O	075.D-0352	53512.395	600B	$359 \pm 247$	0.81	$-53 \pm 298$	0.82	nnn
HD 176387	MS:A:RR	082.D-0342	54781.007	1200B	$-149 \pm 48$	1.23	$-89 \pm 45$	1.20	nnd
HD 172690	MS:A0:M.AP	073.D-0464	53134.368	600B	$222 \pm 51$	1.06	$-41 \pm 51$	1.01	dnd
HD 172690	MS:A0:M.AP	071.D-0308	52793.314	600B	$-254 \pm 79$	0.91	$92 \pm 78$	0.89	nnd
HD 176196	MS:B9:M.AP	071.D-0308	52793.329	600B	$338 \pm 69$	0.85	$-37 \pm 68$	0.80	dnd
HD 176196	MS:B9:M.AP	073.D-0464	53134.389	600B	$175 \pm 51$	1.20	$75 \pm 50$	1.13	dnd
HD 177863	MS:B8:SPB	073.D-0466	53193.211	600B	$-16 \pm 45$	0.98	$-71 \pm 44$	0.94	nnn
HD 177863	MS:B8:SPB	075.D-0295	53597.128	1200g	$-35 \pm 30$	1.00	$12 \pm 29$	0.92	nnn
HD 179218	PM:A0:E	081.C-0410	54609.360	600B	$-57 \pm 30$	0.78	$-7 \pm 29$	0.77	nnn
HD 179588	MS:B9:SPB	079.D-0241	54343.135	600B	$38 \pm 42$	0.78	$-65 \pm 41$	0.75	nnn
HD 179761	MS:A0	071.D-0308	52822.280	600B	$-219 \pm 84$	0.92	$163 \pm 86$	0.97	dnn
HD 180642	GS:B1:BCEP	079.D-0241	54343.159	600B	$-9 \pm 26$	0.74	$41 \pm 27$	0.80	nnn
HD 180642	GS:B1:BCEP	079.D-0241	54344.084	600B	$119 \pm 36$	0.75	$-2 \pm 43$	0.78	ndd
HD 181558	GS:B5:SPB	073.D-0466	53193.251	600B	$-63 \pm 39$	0.91	$-16 \pm 39$	0.89	nnn
HD 181558	GS:B5:SPB	073.D-0466	53227.184	600B	$67 \pm 56$	0.99	$78 \pm 52$	0.83	nnn
HD 181558	GS:B5:SPB	073.D-0466	53274.145	600B	$4 \pm 115$	0.95	$-126 \pm 113$	0.91	nnn
HD 181558	GS:B5:SPB	073.D-0466	53275.144	600B	$67 \pm 50$	0.94	$37 \pm 52$	0.88	nnn
HD 181558	GS:B5:SPB	075.D-0295	53519.378	1200g	$17 \pm 43$	1.00	$12 \pm 52$	0.94	nnn
HD 181558	GS:B5:SPB	075.D-0295	53520.397	1200g	$-37 \pm 37$	1.07	$26 \pm 34$	0.94	nnn
HD 181558	GS:B5:SPB	079.D-0241	54344.167	600B	$-109 \pm 36$	0.76	$-23 \pm 44$	0.76	nnd
WD 1919+145	WD:DA5	073.D-0356	53132.324	600B	$-1455 \pm 754$	1.06	$-769 \pm 938$	1.05	n-n
WD 1919+145	WD:DA5	073.D-0356	53136.351	600B	$-812 \pm 764$	0.98	$426 \pm 784$	1.04	n-n
HD 181616	SG:B8:SB.CSD	279.D-5042	54333.020	1200B	-9 ± 9	3.19	8 ± 5	1.08	-nn

Table 5. continued.

Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
HD 181616	SG:B8:SB.CSD	279.D-5042	54343.098	1200B	$-60 \pm 8$	2.66	13 ± 6	1.31	-DD
HD 181616	SG:B8:SB.CSD	279.D-5042	54361.071	1200B	$8 \pm 13$	1.52	$9 \pm 10$	1.02	-nn
HD 181616	SG:B8:SB.CSD	075.D-0507	53520.415	1200g	$-10 \pm 16$	2.17	$8 \pm 11$	0.99	-nn
HD 182255	GS:B6:SPB	075.D-0295	53514.317	1200g	$26 \pm 184$	1.66	$-255 \pm 184$	1.66	nnn
HD 182255	GS:B6:V	073.D-0466	53193.234	600B	$127 \pm 45$	0.99	$-37 \pm 45$	0.97	nnn
HD 181327	MS:F5:CSD	081.C-0410	54610.364	600B	$0 \pm 17$	0.98	$48 \pm 14$	0.72	nnn
HD 182180	MS:B2:M.HES	081.D-2005	54652.328	1200B	$-2431 \pm 183$	0.93	$-23 \pm 179$	0.88	DDD
HD 182180	MS:B2:M.HES	081.D-2005	54656.078	1200B	$-2154 \pm 186$	1.04	$305 \pm 173$	0.92	DDD
HD 182180	MS:B2:M.HES	081.D-2005	54656.146	1200B	$778 \pm 166$	1.33	$426 \pm 134$	0.91	ddd
HD 182180	MS:B2:M.HES	081.D-2005	54661.327	1200B	$-1421 \pm 215$	1.18	$-216 \pm 197$	1.00	DnD
HD 182180	MS:B2:M.HES	081.D-2005	54669.187	1200B	$-62 \pm 182$	1.14	$587 \pm 153$	0.79	nnn
HD 182180	MS:B2:M.HES	081.D-2005	54669.327	1200B	$2836 \pm 199$	1.21	$-4 \pm 187$	1.07	DDD
HD 182761	MS:A0	077.D-0556	53976.080	600B	$6 \pm 62$	0.86	$-44 \pm 61$	0.83	nnn
HD 183133 HD 183806	MS:B2:SPB MS:A0:M.AP	079.D-0241 071.D-0308	54344.179 52793.345	600B 600B	$97 \pm 41$ $-36 \pm 43$	0.71 0.91	$17 \pm 53$ $-27 \pm 46$	0.80 1.02	nnn
HD 183806	MS:A0:M.AP	071.D-0308 073.D-0464	53120.424	600B	$-30 \pm 43$ $131 \pm 33$	1.14	$-27 \pm 40$ $-2 \pm 33$	0.90	nnn dnd
HD 185256	MS:F0:M.AP.ROAP	269.D-5044	52476.175	600B	$-771 \pm 58$	1.14	$-2 \pm 33$ $-57 \pm 49$	0.90	DDD
HD 186122	MS:B9:HGMN	071.D-0308	52822.312	600B	$88 \pm 66$	0.80	$-37 \pm 49$ $14 \pm 80$	0.93	nnn
HD 186117	MS:A0:AP	073.D-0464	53134.413	600B	$-120 \pm 39$	1.19	$-41 \pm 36$	1.05	ndd
HD 186117	MS:A0:AP	073.D-0464	53140.329	600B	$21 \pm 37$	1.09	$26 \pm 33$	0.90	nnn
HD 186219	GS:A4	077.D-0556	53976.243	600B	$76 \pm 25$	0.93	$-30 \pm 24$	0.84	nnd
HD 187474	MS:A0:M.AP	069.D-0210	52530.969	600R	$-2471 \pm 116$	1.82	$73 \pm 96$	0.96	DDD
HD 188001	SG:O7	075.D-0432	53520.434	600B	$93 \pm 57$	1.04	$71 \pm 56$	1.00	nnn
HD 188001	SG:O7	075.D-0432	53594.199	600B	$119 \pm 38$	0.75	$-16 \pm 38$	0.79	nnd
HD 188001	SG:O7	075.D-0432	53595.149	600B	$63 \pm 62$	1.26	$-78 \pm 56$	1.04	nnn
HD 188001	SG:O7	075.D-0432	53597.149	600B	$-21 \pm 68$	0.88	$29 \pm 68$	0.89	nnn
HD 188042	MS:A5:M.AP	060.A-9203	52130.168	600R	$1964 \pm 35$	1.66	$-46 \pm 27$	0.93	DDD
HD 188042	MS:A5:M.AP	060.A-9203	52130.176	600B	$1909 \pm 42$	3.58	$55 \pm 20$	0.81	DDD
HD 188042	MS:A5:M.AP	060.A-9203	52130.270	600B	$1987 \pm 51$	5.08	$129 \pm 20$	0.81	DDD
HD 188112	MS:B9	075.D-0352	53565.291	600B	$157 \pm 749$	1.34	$720 \pm 873$	1.17	n-n
CD-23 15853	SD:O	075.D-0352	53533.347	600B	$-292 \pm 566$	0.81	$-508 \pm 653$	0.79	n-n
WD 1952-206	WD:DA6	073.D-0516	53251.088	600B	$1240 \pm 1138$	1.05	$-1880 \pm 1151$	1.07	n-n
WD 1953-011	WD:DA6:M	067.D-0306	52048.303	600R	$-40265 \pm 1422$	1.77			D-D
WD 1953-011	WD:DA6:M	067.D-0306	52048.396	600R	$-37616 \pm 1466$	1.18			D-D
WD 1953-011	WD:DA6:M	067.D-0306	52076.173	600R	$-30772 \pm 2124$	1.86			D-D
WD 1953-011 WD 1953-011	WD:DA6:M	067.D-0306	52076.385	600R 600R	$-22868 \pm 3477$	2.28			D-D D-D
WD 1953-011 WD 1953-011	WD:DA6:M WD:DA6:M	067.D-0306 067.D-0306	52078.225 52078.381	600R	$-30838 \pm 2119$ $-43903 \pm 1998$	1.63 2.14			D-D D-D
WD 1953-011 WD 1953-011	WD:DA6:M	067.D-0306	52079.174	600R	$-38077 \pm 2995$	3.45			D-D D-D
WD 1953-011	WD:DA6:M	067.D-0306	52079.394	600R	$-22884 \pm 3662$	2.08			D-D D-D
WD 1953-011 WD 1953-011	WD:DA6:M	067.D-0306	52087.123	600R	$-44542 \pm 1664$	1.76			D-D D-D
WD 1953-011	WD:DA6:M	067.D-0306	52087.172	600R	$-41605 \pm 2025$	2.47			D-D
WD 1953-011	WD:DA6:M	067.D-0306	52087.225	600R	$-40904 \pm 1368$	1.73			D-D
WD 1953-011	WD:DA6:M	067.D-0306	52087.270	600R	$-37784 \pm 1498$	0.87			D-D
HD 226868	SG:O9:XRB	079.D-0549	54270.267	1200B	$-15 \pm 55$	1.00	$48 \pm 51$	0.88	nnn
HD 226868	SG:O9:XRB	079.D-0549	54271.281	1200B	$5 \pm 43$	1.05	$-47 \pm 41$	0.93	nnn
HD 226868	SG:O9:XRB	079.D-0549	54272.262	1200B	$30 \pm 41$	1.00	$39 \pm 40$	0.93	nnn
HD 226868	SG:O9:XRB	079.D-0549	54277.311	1200B	$13 \pm 55$	1.04	$70 \pm 54$	0.99	nnn
HD 226868	SG:O9:XRB	079.D-0549	54281.210	1200B	$47 \pm 38$	1.04	$-8 \pm 35$	0.89	dnn
HD 226868	SG:O9:XRB	079.D-0549	54291.268	1200B	$150 \pm 37$	1.17	$-48 \pm 33$	0.94	ndd
HD 226868	SG:O9:XRB	381.D-0138	54662.213	1200B	$32 \pm 48$	1.04	$-43 \pm 47$	0.99	nnn
HD 226868	SG:O9:XRB	381.D-0138	54663.187	1200B	$156 \pm 44$	1.04	$-82 \pm 41$	0.90	ndd
HD 226868	SG:09:XRB	381.D-0138	54664.194	1200B	$99 \pm 46$	1.08	$-67 \pm 43$	0.97	nnn
HD 226868	SG:09:XRB	381.D-0138	54665.195	1200B	$57 \pm 39$	1.13	$-58 \pm 33$	0.90	nnn
HD 226868 HD 226868	SG:O9:XRB SG:O9:XRB	381.D-0138 381.D-0138	54671.207 54672.230	1200B 1200B	$-20 \pm 35$ $107 \pm 41$	0.83 1.17	$-50 \pm 30$ $-56 \pm 36$	0.65 0.91	nnn
HD 226868	SG:O9:XRB	381.D-0138	54678.178	1200B 1200B	$44 \pm 36$	1.17	$-30 \pm 30$ $86 \pm 35$	0.91	nnn
V1674 Cyg	GS:F8:V	079.D-0549	54269.283	1200B 1200B	$-28 \pm 23$	1.52	$23 \pm 22$	1.04	nnn dnn
V1674 Cyg V1674 Cyg	GS:F8:V	079.D-0549 079.D-0549	54270.267	1200B 1200B	$-26 \pm 23$ $-6 \pm 22$	1.25	$15 \pm 22$	1.23	nnn
V1674 Cyg	GS:F8:V	079.D-0549 079.D-0549	54271.281	1200B	$-0 \pm 22$ $20 \pm 26$	1.40	$-12 \pm 25$	1.30	nnn
V1674 Cyg	GS:F8:V	079.D-0549	54272.262	1200B	$-4 \pm 23$	1.27	$-21 \pm 21$	1.07	nnn
V1674 Cyg	GS:F8:V	079.D-0549	54277.311	1200B	$-56 \pm 62$	5.80	$-45 \pm 57$	5.04	nnn
V1674 Cyg	GS:F8:V	079.D-0549	54281.210	1200B	$116 \pm 22$	1.45	$30 \pm 21$	1.31	ddD
V1674 Cyg	GS:F8:V	079.D-0549	54291.268	1200B	$18 \pm 18$	1.23	$57 \pm 17$	1.16	nnn
V1674 Cyg	GS:F8:V	381.D-0138	54662.213	1200B	$-94 \pm 44$	3.67	$66 \pm 42$	3.35	nnn
V1674 Cyg	GS:F8:V	381.D-0138	54663.187	1200B	$31 \pm 27$	1.66	$32 \pm 26$	1.48	nnn
V1674 Cyg	GS:F8:V	381.D-0138	54664.194	1200B	$-68 \pm 57$	4.16	$-1 \pm 54$	3.77	nnn

Table 5. continued.

Star	Classification GS:F8:V	Prog. ID 381.D-0138	MJD 54665.195	grism 1200B	$\langle B_z \rangle$ (G) -25 ± 21	$\frac{\chi^2/\nu}{1.37}$	$\langle N_z \rangle$ (G) -12 ± 19	$\chi^2/\nu$	HmT
V1674 Cyg V1674 Cyg	GS:F8:V	381.D-0138	54672.230	1200B 1200B			$-12 \pm 19$ $-29 \pm 14$	1.10	nnn
					$-18 \pm 16$	1.34		1.11	nnn
V1674 Cyg HD 190073	GS:F8:V	381.D-0138 074.C-0442	54678.178	1200B	$61 \pm 18$	1.32 1.21	$-7 \pm 17$	1.19 0.95	ndd
HD 190073 HD 190073	PM:A2:M.P.E PM:A2:M.P.E	074.C-0442 074.C-0442	53330.016 53330.030	600B 1200g	$239 \pm 204$	1.21	$-346 \pm 181$	0.93	nnn
HD 190073 HD 190073				1200g 1200g	102 + 62	1 14	22 + 52	0.80	
	PM:A2:M.P.E	075.D-0507	53514.369		$103 \pm 63$	1.14	$-33 \pm 53$		nnn
HD 190073 HD 190073	PM:A2:M.P.E	075.D-0507 075.D-0507	53519.404 53596.151	1200g	$29 \pm 80$ $44 \pm 73$	1.18 1.17	$3 \pm 72$	0.96 1.09	nnn
	PM:A2:M.P.E			1200g 600B		1.17	$-11 \pm 71$		nnn
HD 190073 HD 191295	PM:A2:M.P.E	081.C-0410	54609.411		$14 \pm 73$		$59 \pm 81$	0.76	nnn
HD 191295 HD 191295	GS:B7:SPB	079.D-0241 079.D-0241	54343.181 54345.218	600B 600B	$-45 \pm 30$ $15 \pm 35$	0.77 0.73	$53 \pm 35$	0.73 0.77	nnn
WD 2007-303	GS:B7:SPB WD:DA4			600B		0.73	$102 \pm 43$	0.77	nnn
WD 2007-303 WD 2007-303	WD:DA4 WD:DA4	067.D-0306 073.D-0356	52076.437 53132.382	600B	$1056 \pm 2814$ $312 \pm 361$	1.08	$383 \pm 339$	0.95	n-n n-n
WD 2007-303 WD 2007-303	WD:DA4 WD:DA4	073.D-0356	53132.362	600B	$-452 \pm 394$	0.88	$670 \pm 531$	1.06	n-n
HD 190290	MS:A0:M.AP.ROAP	073.D-0330 073.D-0498	53193.349	600B	$-432 \pm 394$ $2747 \pm 100$	4.41	$11 \pm 46$	0.93	DDD
HD 190290	MS:A0:M.AP.ROAP	269.D-5044	52494.042	600B	$3469 \pm 103$	5.16	$77 \pm 43$	0.93	DDD
HD 190290	MS:A0:M.AP.ROAP	269.D-5044	52498.032	600B	$3417 \pm 116$	2.69	$76 \pm 67$	0.90	DDD
HD 192674	MS:B9:AP	073.D-0464	53137.362	600B	$102 \pm 38$	0.99	$-21 \pm 37$	0.90	nnn
WD 2014-575	WD:DA2	073.D-0404	53140.360	600B	$592 \pm 1071$	1.00	$-388 \pm 1295$	0.97	n-n
WD 2014-575	WD:DA2	073.D-0356	53184.273	600B	$-5213 \pm 2235$	1.19	300 ± 12/3	0.77	n-n
WD 2014-575	WD:DA2	073.D-0356	53185.107	600B	$223 \pm 1106$	1.02	$722 \pm 1509$	1.21	n-n
HD 193756	MS:A9:AP.ROAP	269.D-5044	52498.074	600B	$-131 \pm 39$	1.54	$-14 \pm 34$	1.16	ndd
HD 194783	GS:B8	071.D-0308	52793.361	600B	$37 \pm 62$	0.94	$11 \pm 60$	0.87	nnn
HD 196470	MS:A2:M.AP.ROAP	269.D-5044	52476.233	600B	$1366 \pm 43$	1.74	$-5 \pm 32$	0.98	DDD
WD 2039-202	WD:DA3	060.A-9203	53869.443	600B	$-3183 \pm 1816$	1.61	$3053 \pm 1920$	1.81	n-n
WD 2039-202	WD:DA3	073.D-0322	53148.420	300V	$502 \pm 655$	0.82	$-134 \pm 678$	0.86	n-n
WD 2039-202	WD:DA3	073.D-0356	53143.362	600B	$-106 \pm 639$	1.10	$300 \pm 706$	0.91	n-n
WD 2039-202	WD:DA3	073.D-0356	53167.393	600B	$685 \pm 390$	0.98	$821 \pm 457$	0.97	n-n
HD 199180	MS:A0:M.AP	071.D-0308	52822.344	600B	$-398 \pm 64$	0.97	$49 \pm 60$	0.84	nDD
HD 199728	MS:B9:M.AP	071.D-0308	52822.357	600B	$-158 \pm 59$	0.81	$40 \pm 60$	0.84	nnn
RV Cap	MS:A:RR	082.D-0342	54783.080	1200B	$-131 \pm 72$	1.25	$-67 \pm 72$	1.26	nnn
HD 201018	MS:A2:M.AP	073.D-0464	53151.371	600B	$582 \pm 41$	1.97	$14 \pm 28$	0.92	DDD
HD 201601	MS:A9:M.AP.ROAP	060.A-9203	53335.011	600I	$-594 \pm 57$	1.61	$-38 \pm 44$	0.96	DDD
HD 201601	MS:A9:M.AP.ROAP	077.D-0556	53976.260	600B	$-1281 \pm 61$	1.91	$-27 \pm 48$	1.21	DDD
HD 201601	MS:A9:M.AP.ROAP	077.D-0556	53976.268	1200B	$-1459 \pm 30$	6.16	$-2 \pm 16$	1.18	DDD
HD 201601	MS:A9:M.AP.ROAP	069.D-0210	52531.045	600R	$-1714 \pm 51$	6.91	$86 \pm 19$	1.03	DDD
HD 201484	MS:A:RR	082.D-0342	54783.127	1200B	$-75 \pm 49$	1.22	$53 \pm 46$	1.13	nnn
WD 2105-820	WD:DA6.M	073.D-0516	53199.317	600B	$9117 \pm 1400$	1.18	$-1914 \pm 1509$	1.37	D-D
WD 2105-820	WD:DA6.M	073.D-0516	53227.209	600B	$9599 \pm 846$	1.02	$-1 \pm 864$	1.07	D-D
WD 2105-820	WD:DA6:M	073.D-0516	53192.269	600B	$8254 \pm 1327$	1.42	$-417 \pm 1210$	1.16	D-D
WD 2105-820	WD:DA6:M	073.D-0516	53193.278	600B	$10612 \pm 984$	1.16	$-910 \pm 1007$	1.22	D-D
WD 2105-820	WD:DA6:M	073.D-0516	53197.294	600B	$7173 \pm 1534$	1.21	$809 \pm 1521$	1.19	d-d
HD 202149	MS:B9:HG	073.D-0464	53137.413	600B	$40 \pm 36$	1.01	$46 \pm 37$	1.08	nnn
HD 202627	MS:A1:AP	071.D-0308 073.D-0464	52793.374	600B	$-117 \pm 60$	0.94	$141 \pm 56$	0.83	nnn
HD 202671 WD 2115-560	MS:B7:HEW.MN WD:DA6	073.D-0464 073.D-0516	53151.411 53199.342	600B 600B	$-18 \pm 51$ $-1114 \pm 1080$	0.95 1.18	$-55 \pm 50$ $-1562 \pm 974$	0.96 0.96	nnn
WD 2115-560	WD:DA6	073.D-0516 073.D-0516	53227.238	600B	$-1114 \pm 1080$ $304 \pm 928$	1.18	$-1302 \pm 974$ $-103 \pm 915$	1.05	n-n
HD 203932	MS:A5:AP.ROAP	269.D-5044	52498.112	600B	$-298 \pm 60$	0.97	$7 \pm 59$	0.92	n-n dnd
HD 205932 HD 205805	GS:B7	075.D-0352	53533.384	600B	$-298 \pm 60$ $-130 \pm 115$	0.97	$-210 \pm 138$	0.92	nnn
HD 206540	MS:B5:SPB	075.D-0332 075.D-0295	53514.416	1200g	$-130 \pm 113$ $-42 \pm 41$	0.80	$-210 \pm 138$ $112 \pm 40$	0.78	nnn
HD 206540	MS:B5:SPB	075.D-0293 079.D-0241	54344.220	600B	$-33 \pm 29$	0.36	$-37 \pm 29$	0.75	nnn
HD 206653	MS:B9:AP	071.D-0308	52793.394	600B	$35 \pm 29$ $37 \pm 54$	0.70	$-4 \pm 57$	0.73	nnn
JL 87	SD:B	075.D-0352	53597.196	600B	$-120 \pm 143$	0.94	$-125 \pm 177$	0.95	nnn
HD 205879	MS:B8:SPB	079.D-0241	54343.226	600B	$90 \pm 47$	0.79	$-86 \pm 58$	0.77	nnn
WD 2148+286	SD:O	075.D-0352	53533.414	600B	$-114 \pm 400$	0.76	$-914 \pm 548$	0.87	nnn
WD 2149+021	WD:DA3	073.D-0356	53183.278	600B	$-340 \pm 669$	1.10	$301 \pm 805$	1.09	n-n
WD 2149+021	WD:DA3	073.D-0356	53196.346	600B	$139 \pm 545$	0.83	$1200 \pm 695$	0.92	n-n
WD 2149+021	WD:DA3	073.D-0356	53222.200	600B	$102 \pm 509$	1.01	$835 \pm 569$	0.87	n-n
HD 208057	MS:B3:E.SPB	073.D-0466	53192.308	600B	$-170 \pm 53$	0.93	$-86 \pm 64$	0.94	nnd
HD 208057	MS:B3:E.SPB	075.D-0295	53597.166	1200g	$-124 \pm 35$	0.98	$36 \pm 34$	0.93	ndd
WD 2151-015	WD:DA6	073.D-0516	53240.174	600B	$661 \pm 2297$	1.36	$4329 \pm 2256$	1.27	n-n
WD 2151-015	WD:DA6	073.D-0516	53251.124	600B	$-1692 \pm 926$	0.96	$667 \pm 915$	0.95	n-n
WD 2151-015	WD:DA6	073.D-0516	53252.120	600B	$-703 \pm 1668$	1.27	$-4305 \pm 1814$	1.51	n-n
WD 2153-512	WD:DQ7	082.D-0736	54786.073	600B	40				
BV Aqr	MS:A:RR	082.D-0342	54782.074	1200B	$-10 \pm 46$	1.18	$-34 \pm 44$	1.11	nnn
HD 209409	MS:B7:E	077.D-0406	53955.185	600B	$-70 \pm 47$	1.15	$-56 \pm 41$	0.79	nnn
HD 209409	MS:B7:E	380.D-0480	54432.027	1200B	$-77 \pm 32$	0.75	1 ± 29	0.64	nnn

Table 5. continued.

Star	Classification	Prog. ID	MJD	grism	$\langle B_z \rangle$ (G)	$\chi^2/\nu$	$\langle N_z \rangle$ (G)	$\chi^2/\nu$	HmT
HD 209409	MS:B7:E	380.D-0480	54433.008	1200B	$-63 \pm 39$	0.94	$-21 \pm 32$	0.67	nnn
HD 209459	MS:B9	071.D-0308	52822.381	600B	$-24 \pm 65$	0.95	$52 \pm 63$	0.91	nnn
WD 2211-495	WD:DA1	073.D-0356	53140.401	600B	$-69 \pm 1076$	0.85	$-1592 \pm 1209$	0.85	n-n
WD 2211-495	WD:DA1	073.D-0356	53185.246	600B	$-1445 \pm 1124$	0.80	$-2103 \pm 1282$	0.79	n-n
HD 212385	MS:A3:M.AP	071.D-0308	52822.413	600B	$338 \pm 43$	0.96	$23 \pm 41$	0.89	nDD
HD 212385	MS:A3:M.AP	073.D-0464	53184.297	600B	$639 \pm 40$	2.02	$-17 \pm 28$	1.02	DDD
HD 212643	MS:A0	074.C-0442	53332.051	600B	$194 \pm 67$	0.85	$161 \pm 71$	0.94	nnn
WD 2226-210	WD:CP:DA0	075.D-0289	53527.386	600B	$-194 \pm 1174$	1.16			nnn
WD 2226-210	WD:CP:DA0	075.D-0289	53526.387	600B	$3148 \pm 969$	1.07	$-2074 \pm 1014$	1.20	dnd
HD 213637	MS:F1:M.AP.ROAP	079.D-0240	54230.382	600B	$753 \pm 87$	1.74	$-23 \pm 59$	0.81	nDD
HD 213637	MS:F1:M.AP.ROAP	079.D-0240	54248.387	600B	$693 \pm 35$	0.89	$81 \pm 32$	0.75	DDD
HD 213637	MS:F1:M.AP.ROAP	079.D-0240	54269.420	600B	$767 \pm 26$	1.11	$21 \pm 22$	0.75	DDD
HD 213637	MS:F1:M.AP.ROAP	079.D-0240	54279.198	600B	$755 \pm 38$	0.93	$24 \pm 33$	0.72	DDD
HD 213637	MS:F1:M.AP.ROAP	079.D-0240	54288.365	600B	$772 \pm 38$	0.92	$74 \pm 35$	0.78	DDD
HD 213637	MS:F1:M.AP.ROAP	079.D-0240	54297.404	600B	$831 \pm 35$	0.93	$15 \pm 31$	0.74	DDD
HD 213637	MS:F1:M.AP.ROAP	079.D-0240	54305.186	600B	$697 \pm 39$	0.91	$-19 \pm 35$	0.74	DDD
HD 213637	MS:F1:M.AP.ROAP	079.D-0240	54316.150	600B	$642 \pm 40$	0.82	$19 \pm 39$	0.78	DDD
HD 213637	MS:F1:M.AP.ROAP	269.D-5044	52498.150	600B	$856 \pm 45$	1.39	$-42 \pm 36$	0.92	DDD
HD 215789	MS:A2:SB	077.D-0556	53976.290	600B	$16 \pm 84$	0.88	$19 \pm 86$	0.93	nnn
HD 215573	MS:B6:SPB	072.D-0377	52900.080	600B	$196 \pm 64$	0.99	$34 \pm 63$	0.96	nnd
HD 215573	MS:B6:SPB	073.D-0466	53191.222	600B	$-17 \pm 44$	1.00	$23 \pm 42$	0.94	nnn
HD 215573	MS:B6:SPB	073.D-0466	53192.290	600B	$-73 \pm 36$	0.79	$63 \pm 35$	0.75	nnn
HD 215573	MS:B6:SPB	075.D-0295	53506.416	1200g	$50 \pm 38$	0.79	$25 \pm 44$	0.72	nnn
HD 215573	MS:B6:SPB	075.D-0295	53522.420	1200g	$67 \pm 95$	1.76	$22 \pm 94$	1.73	nnn
HD 215573	MS:B6:SPB	079.D-0241	54345.232	600B	$56 \pm 39$	0.77	$60 \pm 49$	0.79	nnn
HD 215573	MS:B6:SPB	078.D-0140	54042.020	600B	$225 \pm 68$	0.92	$50 \pm 68$	0.93	nnd
HD 215573	MS:B6:SPB	079.D-0241	54343.245	600B	$-37 \pm 32$	0.75	$106 \pm 40$	0.77	nnn
LP 877-23	SD:G	060.A-9203	52476.268	600B	$-419 \pm 553$	1.02			nnn
HD 217186	MS:A1	077.D-0556	53976.330	600B	$101 \pm 45$	0.83	$-20 \pm 59$	0.92	nnn
HD 217522	MS:F:M.AP.ROAP	060.A-9203	53335.026	600I	$-520 \pm 63$	1.56	$65 \pm 59$	0.93	DDD
HD 217522	MS:F:M.AP.ROAP	269.D-5044	52498.183	600B	$-938 \pm 70$	1.50	$123 \pm 53$	0.88	DDD
HD 217522	MS:F:M.AP.ROAP	069.D-0210	52531.236	600R	$-1063 \pm 44$	6.99	$46 \pm 17$	1.10	dDD
HD 218495	MS:A2:M.AP.ROAP	269.D-5044	52519.225	600B	$-1169 \pm 56$	1.20	$-22 \pm 50$	0.95	DDD
HD 218994	MS:A:M.AP	079.D-0241	54343.203	600B	$430 \pm 30$	0.89	$-2 \pm 34$	0.78	DDD
HD 219571	GS:F1:D	074.C-0463	53279.040	1200g	$81 \pm 29$	1.25	$34 \pm 34$	1.11	ndn
WD 2317-054	SD:O:HPM	080.D-0521	54400.015	600B	$-857 \pm 3266$	0.81			n-n
IP Peg	WD:CV	079.D-0697	54311.313	1200B					_
IP Peg	WD:CV	081.D-0670	54693.286	1200B					_
IP Peg	WD:CV	081.D-0670	54694.270	1200B					_
WD 2322+137	WD:DA9:HPM	080.D-0521	54400.030	600B					_
HD 221507	MS:B9:HGMN	072.D-0377	52900.092	600B	$-178 \pm 59$	0.94	$-47 \pm 59$	0.94	nnn
HD 221760	MS:A2:AP	071.D-0308	52793.415	600B	$-26 \pm 75$	0.91	$219 \pm 75$	0.90	nnn
HD 221760	MS:A2:AP	073.D-0464	53184.314	600B	$-36 \pm 31$	0.80	$2 \pm 30$	0.75	nnn
WD 2333-049	WD:DA6	073.D-0516	53274.201	600B	$4478 \pm 5423$	1.10			n-n
NLTT 57760	WD:DZ:HPM	080.D-0521	54419.090	600B					_
CD-35 15910	SD:B	075.D-0352	53598.378	600B	$258 \pm 239$	0.99	$-371 \pm 251$	1.10	nnn
HD 223640	MS:B9:M.AP	071.D-0308	52822.427	600B	$-32 \pm 59$	0.80	$-59 \pm 63$	0.94	nnn
HD 224361	MS:A1	077.D-0556	53976.313	600B	$-83 \pm 81$	1.06	$-144 \pm 82$	1.08	nnn
HD 224392	MS:A1	077.D-0556	53976.347	600B	$-57 \pm 43$	0.77	$42 \pm 48$	0.74	nnn
HD 224686	MS:B9:E	077.D-0406	53869.405	600B	$30 \pm 17$	0.82	$31 \pm 17$	0.77	nnn
HD 224686	MS:B9:E	380.D-0480	54432.065	1200B	$58 \pm 33$	0.82	$46 \pm 30$	0.70	nnn